Service Manual

ORDER NO.
RRV2384

MD/CD COMPONENT SYSTEM

X-MDX717
XR-MDX717

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	X-MDX717		
LBXCN	◯	AC110V	
NLWXCN/HK	◯	AC220V	

● This product is a system(s) component.

Component	Model	Service manual	Remarks
	X-MDX717		
STEREO MD/CD CASSETTE DECK RECEIVER	XR-MDX717	RRV2384	This manual.
SPEAKER SYSTEM	S-C3-S-LR	RRV2391	

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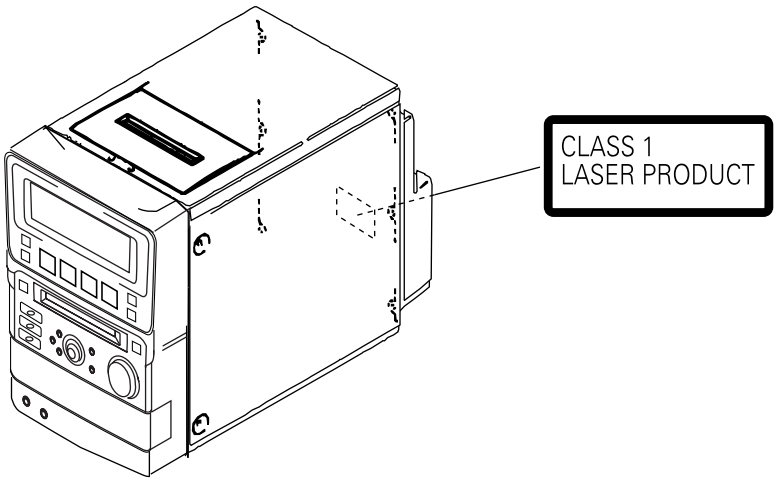
1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

LABEL CHECK



IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS OF CD PLAYER

MAXIMUM OUTPUT POWER: 5 mW
WAVELENGTH: 760 - 800 nm

LASER DIODE CHARACTERISTICS OF MD RECORDER

MAXIMUM OUTPUT POWER: 40 mW
WAVELENGTH: 775 - 800 nm

Additional Laser Caution of CD PLAYER

1. Laser Interlock Mechanism
   The position of the switch for detecting loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch is pressed physically.
   Thus, the interlock will no longer function if the switch is released physically and deliberatery.
   Laser diode oscillation will continue, if pin 33 of CXA1782BQ (IC803) on the CD UNIT is connected to GND, or else the terminals of Q802 are shorted to each other (fault condition).

2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

Additional Laser Caution of MD RECORDER

Control method of the current through a laser diode.
The resistor R166 on the MD MOUNT ASSY (For MD mechanism assembly) are for the limiting of current through a laser diode.

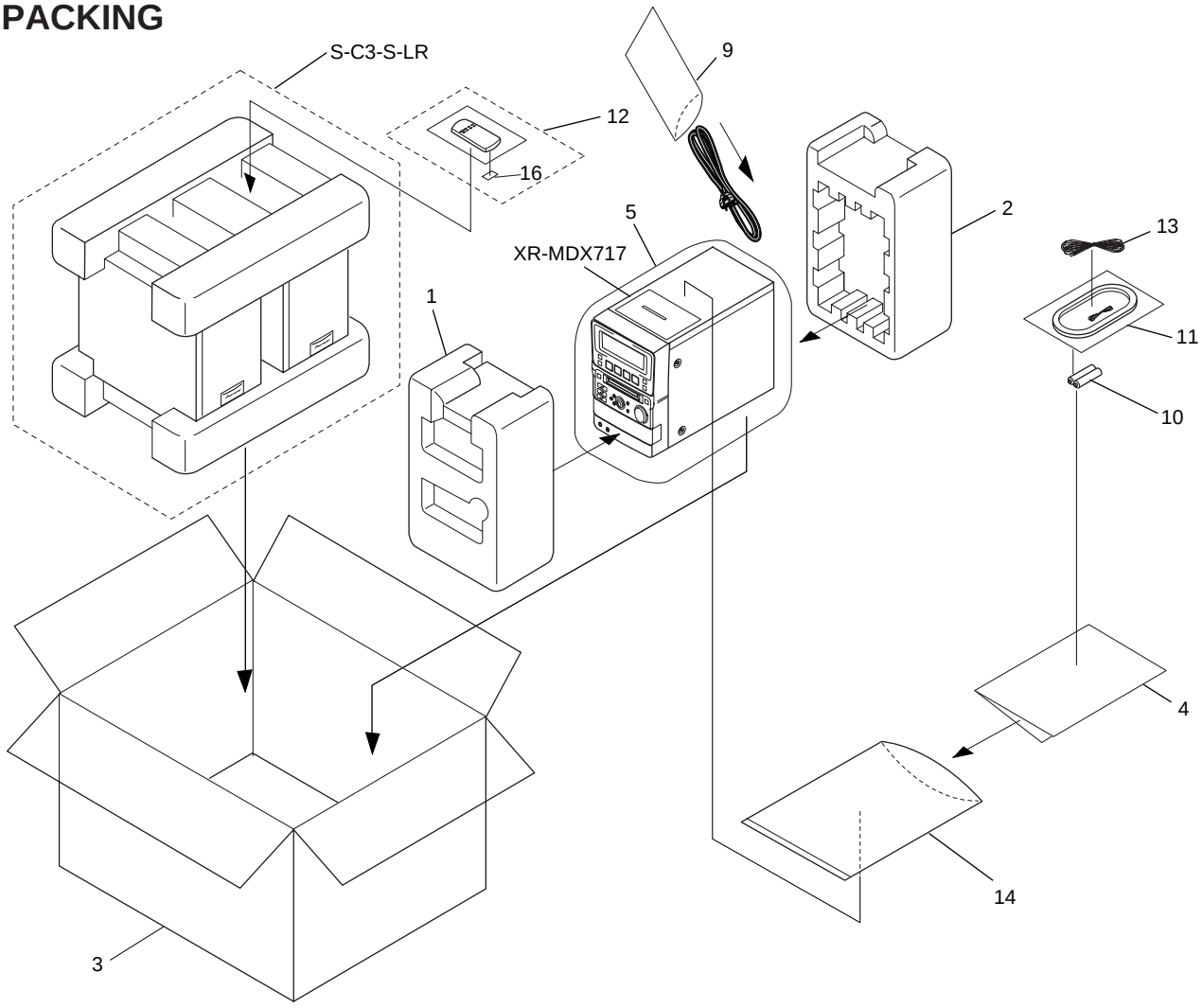
Control method of the laser output power
The laser pick-up assembly provide the photo-diodes and APC (Auto Power Control) circuit.
The photo-diode detect output of the laser diode then IC201 control the APC circuit according to the signal voltage of the photo-diode via IC101.

Laser Interlock Switch
The loading position detect switch is set to " LOAD ON " position, IC201 get the " LOAD " signal, and hand the laser " LDON " signal to APC (Auto Power Control) circuit of the Laser pick-up assembly.
Then a laser diode can be lighted when the " LOAD "signal is " LOAD ON " position.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

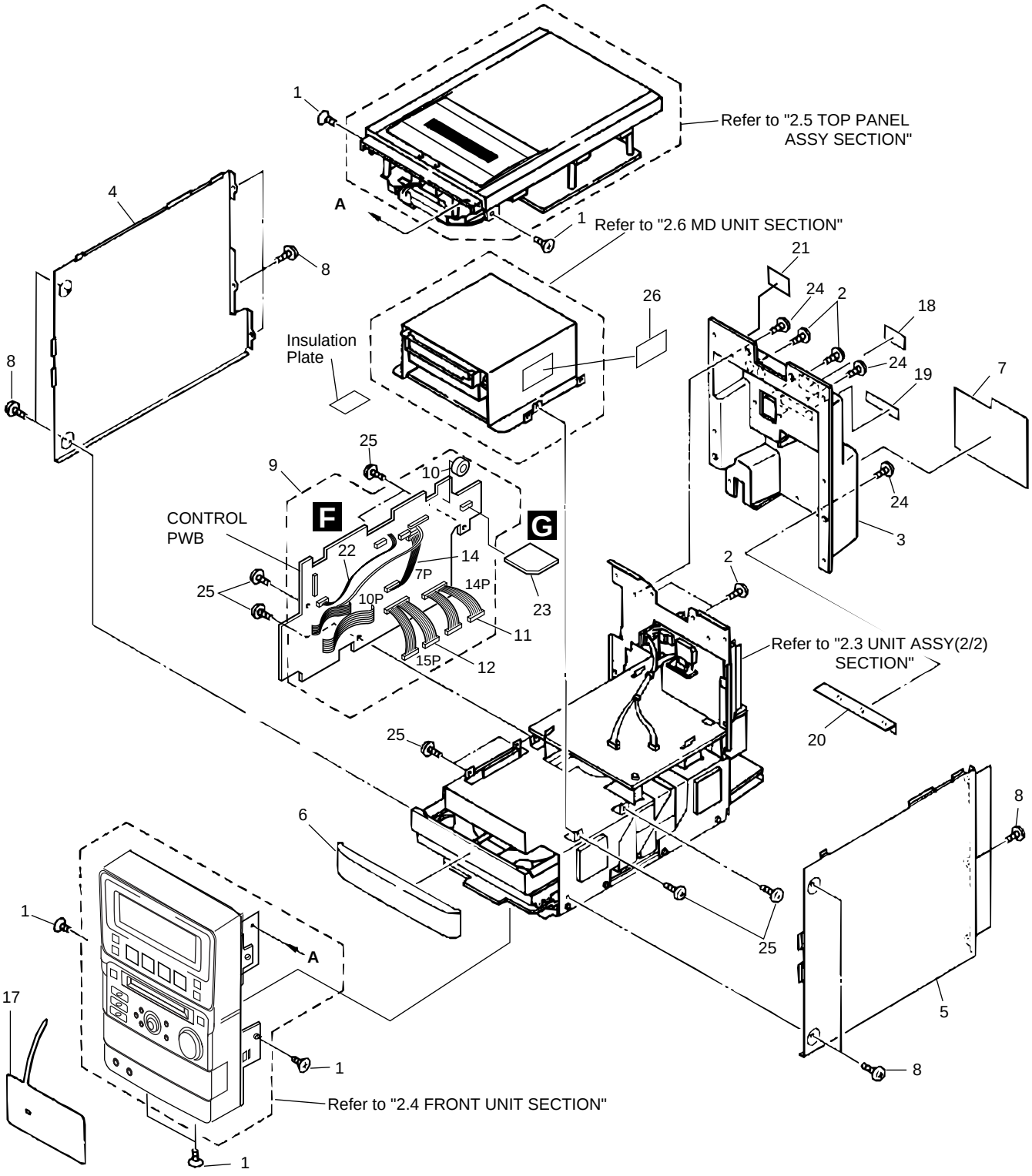
Mark	No.	Description	Part No.
	1	Styloform F	9001070050
	2	Styloform R	9002070050
	3	Gift box	See Contrast table (2)
	4	Operating Instructions (English/Chinese)	9A80000080
	5	Mirror Mat	9003070050
	6	• • • • •	
	7	• • • • •	
	8	• • • • •	
NSP	9	Polyethylene Bag	9901002640
NSP	10	AA batteries (R6P)	VEM-005
	11	AM loop antenna	4300103510
	12	Remote control unit (AXD-7260)	R010–01
	13	FM T-type antenna	5401160021
NSP	14	Polyethylene Bag	AHG7030
	15	• • • • •	
	16	Battery Cover	100307R010

(2) CONTRAST TABLE

X-MDX717/LBXCN and NLWXCN/HK are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			X-MDX717 /LBXCN	X-MDX717 /NLWXCN/HK	
	3	Gift box	9005070050	9007070050	

2.2 UNIT ASSY (1/2)



(1) UNIT ASSY (1/2) PARTS LIST

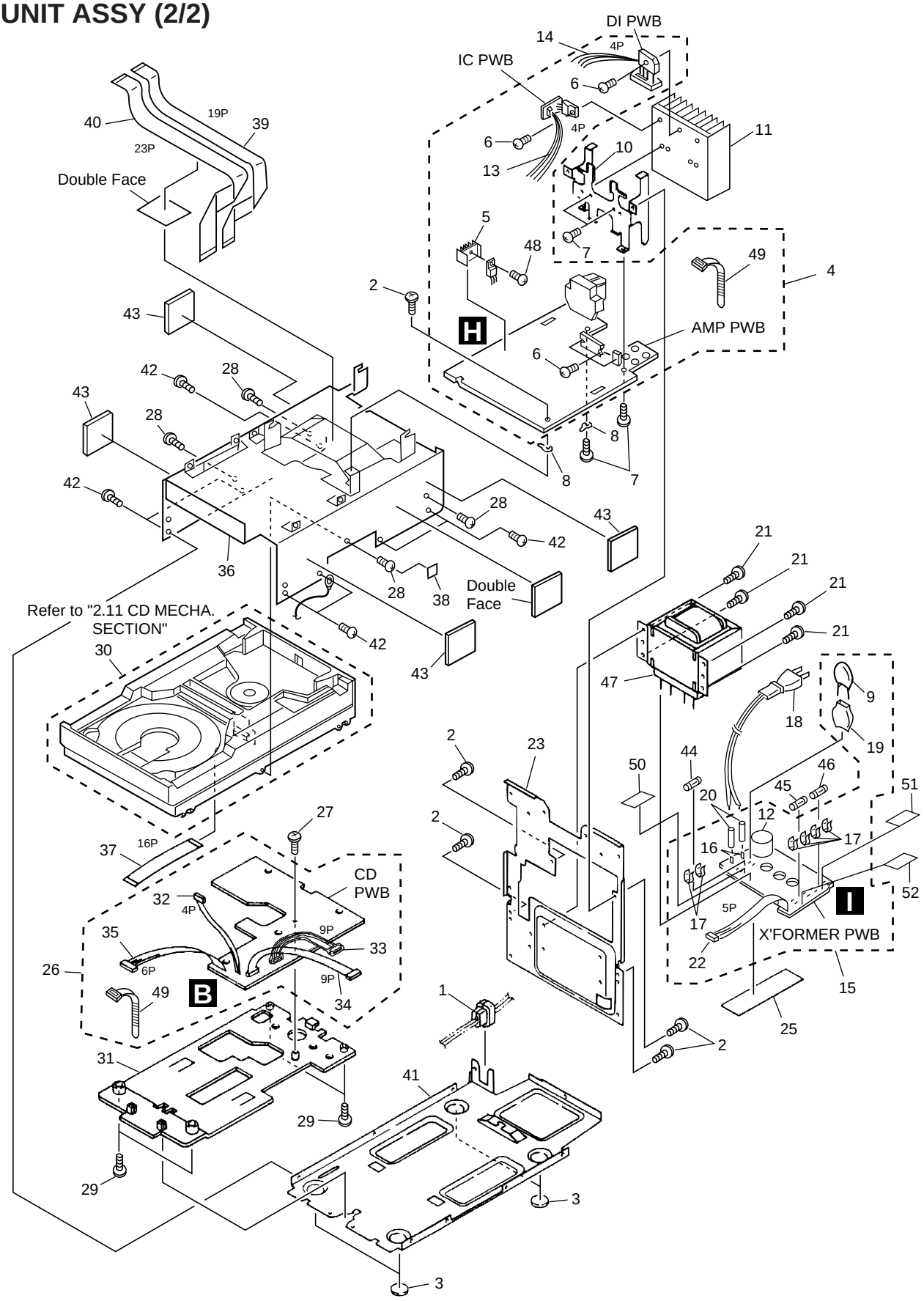
Mark	No.	Description	Part No.
	1	Screw	CCZ30P060FMC
	2	Screw	BPZ30P100FZK
	3	Rear Panel	1003070050
	4	Side Panel L	1024070050
	5	Side Panel R	1025070050
	6	Tray Panel	2028070050
NSP	7	Rear Label	See Contrast table (2)
	8	Screw	BBT30P080FNI
	9	CONTROL PWB ASSY	C142279311
	10	Speaker Piezo	4001000292
	11	14P CON. ASSY (CN454)	C488141903
	12	15P CON. ASSY (CN455)	C488151904
	13	• • • •	
	14	7P CON. ASSY	C48F070811
	15	• • • •	
	16	• • • •	
	17	CD Label	1028070050
	18	ANT Caution Label	9A10000770
	19	SP Caution Label	9A10000800
	20	Spacer	2041070050
	21	SP Light Label	9A10000820
	22	4P CON. ASSY	C48F040811
	23	SP. SOCKET PWB ASSY	C142279320
	24	Screw	BCZ30P060FZK
	25	Screw	BBZ30P060FMC
	26	Lasser Caution Label	9A10000830

(2) CONTRAST TABLE

XR-MDX717/LBXCN and NLWXCN/HK are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			XR-MDX717 /LBXCN	XR-MDX717 /NLWXCN/HK	
NSP	7	Rear Label	9A10000750	9A10000740	

2.3 UNIT ASSY (2/2)



(1) UNIT ASSY (2/2) PARTS LIST

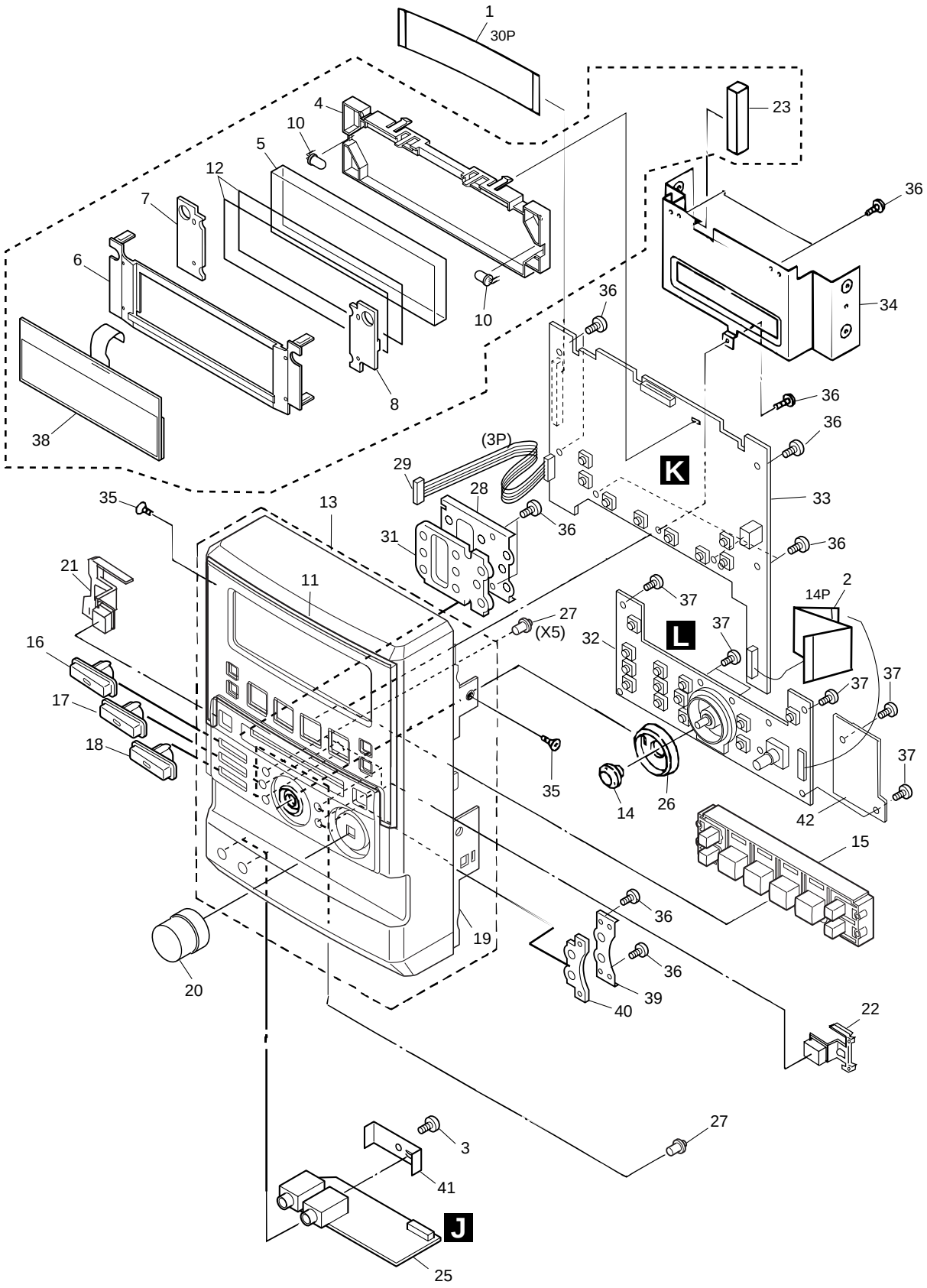
Mark	No.	Description	Part No.
	1	Cord Stopper	4580000021
	2	Screw	BBZ30P060FMC
	3	Rubber Foot	1006070050
	4	AMP PWB ASSY	See Contrast table (2)
	5	Heat Sink-B	2010070050
	6	Screw	BBZ30P120FMC
	7	Screw	BBZ30P080FMC
	8	Earth Washer	2000001209
	9	Spark Killer"L"4700pF/400V	5106472P41
	10	H.S Bracket	2011070050
	11	Heat Sink-A	2009070050
	12	AC Line Filter	70699200C1
	13	Wire Connector 4P (CN408)	5410414400
	14	Wire Connector 4P (CN407)	5410414400
	15	X' FORMER PWB ASSY	See Contrast table (2)
	16	Terminal Pin "L"	2000000843
	17	Fuse Holder	4692000034
⚠	18	AC Cord With Plug	See Contrast table (2)
	19	Cover,Sumi Tubu	5290100015
	20	Sumi Tubu	5290100020
	21	Screw	BSZ40P060FMC
	22	Wire Connector 5P	C520516904
	23	Rear Chassis	1026070050
	24	• • • •	
	25	Himelon-D	2043070050
	26	CD PWB ASSY	C142278900
	27	Screw	BPZ20P060FMC
	28	Screw	BPZ26P100FMC
	29	Screw	BPZ30P100FMC
	30	CD Mecha,CMCF0211	CMCF0211
	31	CD Mecha Chassis	2002070050
	32	4P CON. ASSY (CN803)	C488041910
	33	Wire Connector 9P (CN807)	C488091951
	34	Wire Connector 9P (CN804)	C488091910
	35	Wire Connector 6P (CN802)	C48P063512
	36	CD Mecha Cover	2012070050
	37	FFC 16P (CD-CD Mecha)	5421609024
	38	Himelon B	2037070050
	39	FFC 19P (CD-CONTROL)	5421931004
	40	FFC 23P (CD-CONTROL)	5422332024
	41	Bottom Chassis	1017070050
	42	Screw	BSZ26P050FMC
	43	Cushion-D	2039070050
⚠	44	Fuse (F501)	See Contrast table (2)
⚠	45	Fuse (F502: T5A)	5267500L62
⚠	46	Fuse (F503: T2.5A)	5267250L62
⚠	47	Power Trans (T601)	See Contrast table (2)
	48	Screw	BBZ30P080FMC
NSP	49	Binder (BK-1)	ZCA-BK1
	50	Fuse Label	See Contrast table (2)
	51	Fuse Label (T2.5A/L250V)	See Contrast table (2)
	52	Fuse Label (T5A/L250V)	See Contrast table (2)

(2) CONTRAST TABLE

XR-MDX717/LBXCN and NLWXCN/HK are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			XR-MDX717 /LBXCN	XR-MDX717 /NLWXCN/HK	
	4	AMP PWB ASSY	C142279711	C142279710	
	15	X' FORMER PWB ASSY	C142279500	C142279501	
⚠	18	AC Cord With Plug	463511W960	463321A065	
⚠	44	Fuse (F501/ 1.6A)	5266160064	Not used	
⚠	44	Fuse (F501/ T800mA)	Not used	5267080L62	
⚠	47	Power Trans (T601) (110V)	420F662281	Not used	
⚠	47	Power Trans (T601) (220V)	Not used	420F664282	
	50	Fuse Label (T800mA/L250V)	Not used	9A10000880	
	51	Fuse Label (T2.5A/L250V)	Not used	9A10000900	
	52	Fuse Label (T5.0A/L250V)	Not used	9A10000890	

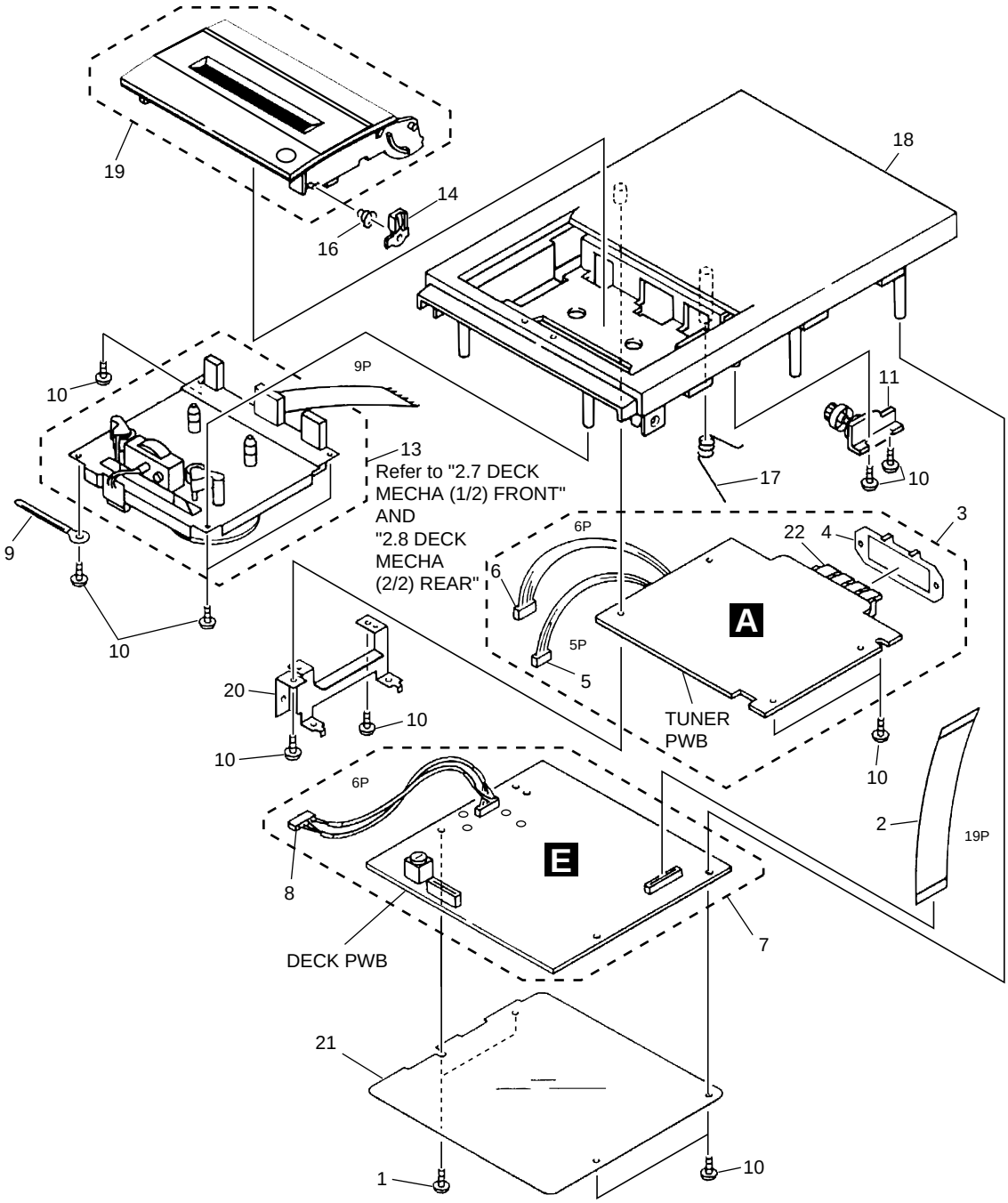
2.4 FRONT UNIT



• FRONT UNIT PARTS LIST

Mark	No.	Description	Part No.
	1	FFC 30P (FRONT-CONT)	5423014024
	2	FFC 14P (FRONT(A)-(B))	5421405024
	3	Screw	BPZ30P100FMC
	4	LCD Holder	2003070050
	5	Lens	AAK7794
	6	LCD Lens	1004070050
	7	Reflector L	2024070050
	8	Reflector R	2025070050
	9	• • • • •	
	10	3 IN 1LED	NSTM515AS-0083
NSP	11	Display Panel	1016070050
	12	Diffusion Sheet	2005070050
	13	Front Panel Assy	0001070050
	14	Enter Knob	1007070050
	15	Function Knob	1008070050
	16	Disc Knob CD-1 Assy	0002070050
	17	Disc Knob CD-2 Assy	0003070050
	18	Disc Knob CD-3 Assy	0004070050
NSP	19	Front Panel	1001070050
	20	Volume Knob	1009070050
	21	Power Knob	1010070050
	22	MD Eject Knob	1011070050
	23	Cushion-C	2042070050
	24	• • • • •	
NSP	25	JACK PWB ASSY	C143279130
	26	Color Jog	1012070050
	27	Edit Knob	1013070050
	28	Knob Holder"A"	2013070050
	29	3P CON. Assy	C48P031811
	30	• • • • •	
	31	Cushion "A"	2026070050
	32	FRONT(B)PWB ASSY	C143279120
	33	FRONT(A)PWB ASSY	C143279110
	34	Front Chassis	1018070050
	35	Screw	CCZ30P060FMC
	36	Screw	BPZ26P100FMC
	37	Screw	BPZ20P060FMC
	38	LCD DISP. LMG172C2	4110500274
	39	Knob Holder"B"	2014070050
	40	Cushion "B"	2027070050
	41	MIC Holder	2023070050
	42	Barrier	2040070050

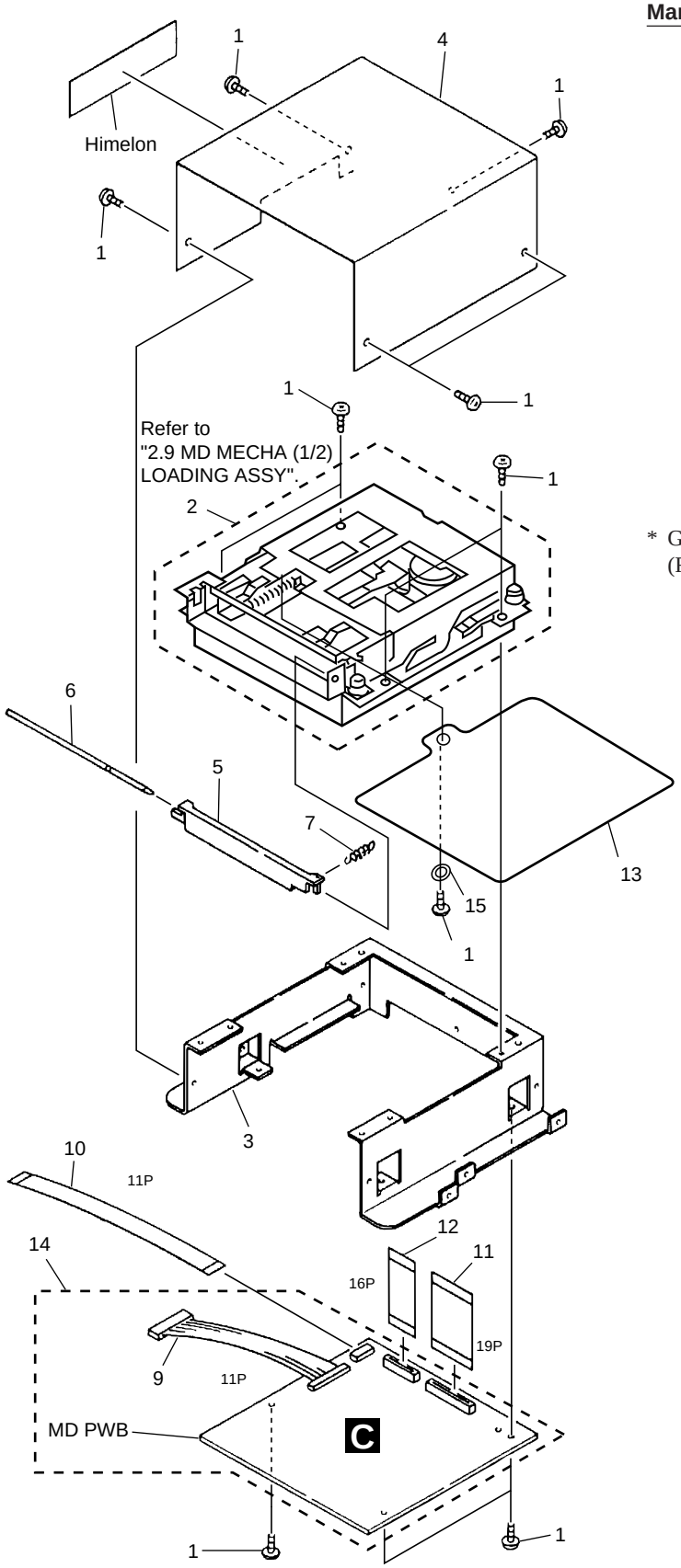
2.5 TOP PANEL ASSY



• TOP PANEL ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BBZ30P060FMC
	2	FFC 19P (DECK-CONT)	5421924024
	3	TUNER PWB ASSY	C142279800
	4	Connector Plate	2029070050
	5	5P CON. ASSY	C48P051011
	6	6P CON. ASSY	C48P061011
	7	DECK PWB ASSY	C141279600
	8	9P CON. ASSY	C48P090811
	9	Earth Terminal	2044070050
	10	Screw	BPZ30P100FMC
	11	Gear Damper	2000001269
	12	• • • • •	
	13	Deck Mecha	CRL3423
	14	Lock Lever	2006070050
	15	• • • • •	
	16	COM Spring	2016070050
	17	Door Spring	2015070050
	18	Top Panel	1002070050
	19	Deck Door Assy	0005070050
	20	Deck Bracket	2017070050
	21	PC Sheet	2035070050
	22	Antenna Terminal 4P	4560004086

2.6 MD UNIT

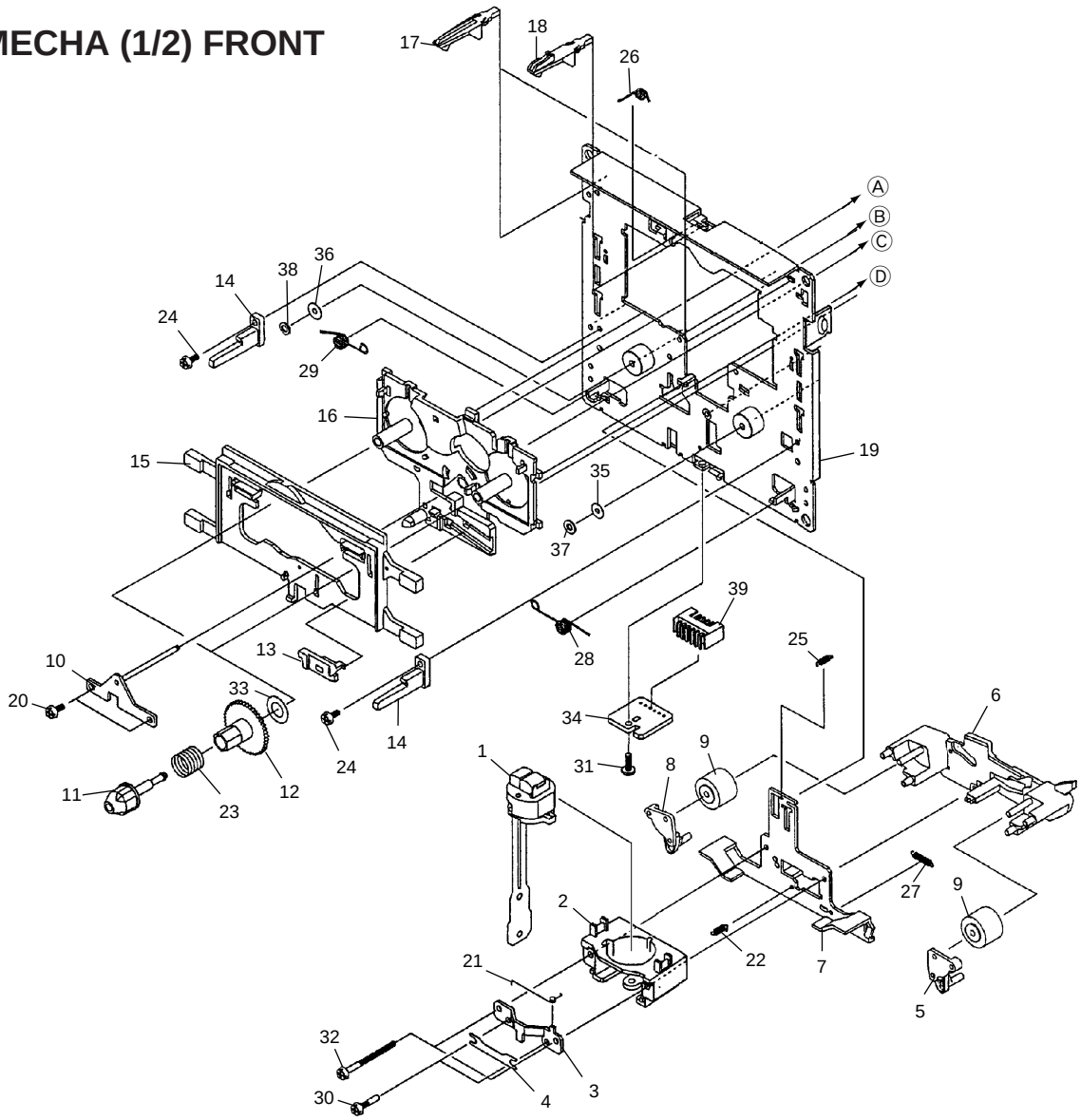


• MD UNIT PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BSZ26P050FMC
	2	MD Mecha,KMK-260AAB	GXX1155
	3	MD Mecha Chassis	2018070050
	4	MD Shield Case	2019070050
	5	MD Door	1021070050
	6	Shaft	2020070050
	7	EXT Spring	2021070050
	8	• • • •	
	9	11P CON. ASSY	C48P111811
	10	FFC 11P (MD-CONT)	5421116024
	11	FFC 19P (MD-MD Mecha)	5421906024
	12	FFC 16P (MD-MD Mecha)	5421606024
	13	Shield Plate	2022070050
	14	MD PWB ASSY	C143279000
	15	Washer	2046070050

* GXX1155 is MD mechanism for service by which resistance (R123, R213, R142) is removed from KMK-260AAB.

2.7 DECK MECHA (1/2) FRONT

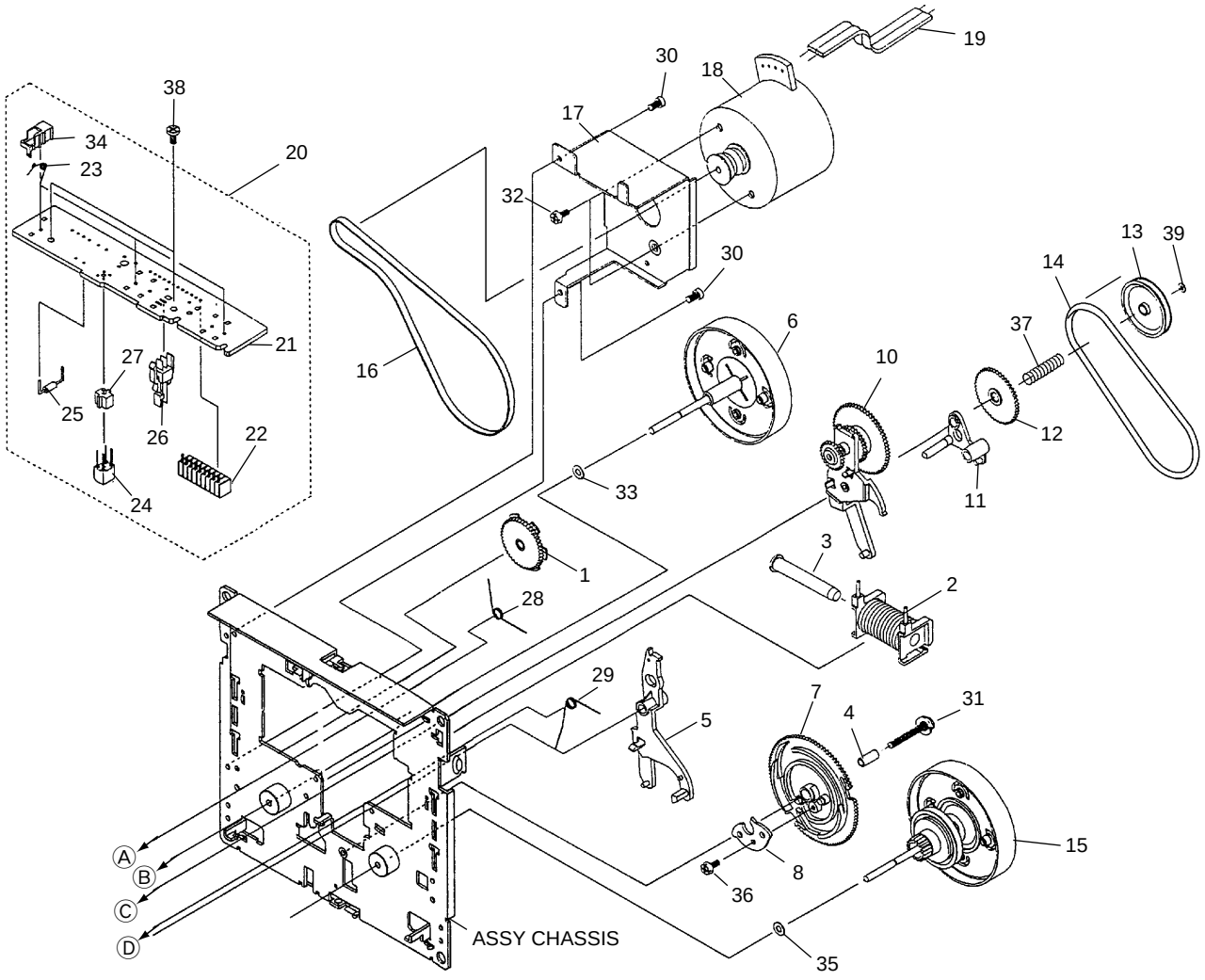


• DECK MECHA (1/2) FRONT PARTS LIST

Mark	No.	Description	Part No.
	1	Assy Holder Head	500934070
	2	Frame Head	502193024
	3	Plate AZ	501194046
	4	Spring Azimuth	501604108
	5	Cap Pinch R	502194033
	6	Lever Head	502593342
	7	Chassis Head	501123045
	8	Cap Pinch L	502194034
	9	Roller Pinch	2202741054
	10	Assy Plate D	500934311
	11	Cap Reel	502284020
	12	Gear Reel	502224006
	13	Lever ST	502594041
	14	Guide C	502194014
	15	Lever Brake	502593040
	16	Frame A	502113013
	17	ARM SW	502394027
	18	ARM CS	502394026
	19	Assy Chassis	500934099
	20	Screw	GSE10A2003

Mark	No.	Description	Part No.
	21	Spring	010824650
	22	Spring	010804649
	23	Spring	010814601
	24	Screw	GSE20A2005
	25	Spring	010804635
	26	Spring	010824599
	27	Spring	010804607
	28	Spring	010824651
	29	Spring	010824652
	30	Screw	033004056
	31	Screw	GSE20A2004
	32	Screw	GSD10A2018
	33	Washer	GWM48X075010
	34	P.W.B Head	500704057
	35	Washer	GWM17S050035S
	36	Washer	GWM19X055035S
	37	Washer	GWM19S035035
	38	Washer	GWN21X040040
	39	Housing	S6BPH-K-S

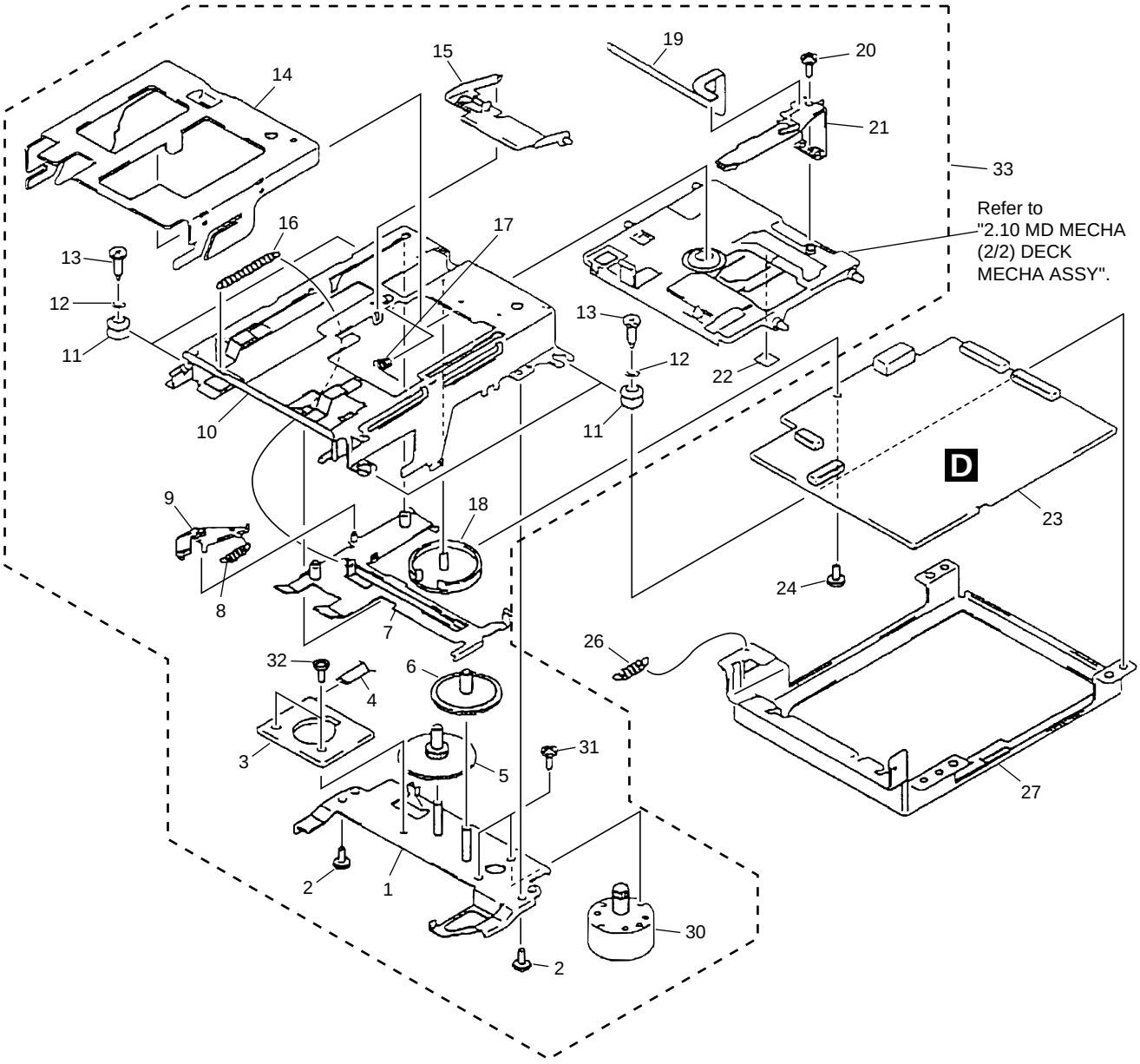
2.8 DECK MECHA (2/2) REAR



• DECK MECHA (2/2) REAR PARTS LIST

Mark	No.	Description	Part No.
	1	Assy Cover	500934063
	2	Assy Bobbin	500934125
	3	Plunger	033004442
	4	Coller	033004455
	5	Arm Trigger	502683016
	6	Assy Flywheel LA	500933314
	7	Gear Cam	502213009
	8	Arm Cam	501394292
	9	• • • •	
	10	Assy Clutch	500934069
	11	ARM UD A	502394017
	12	Gear UD	502224007
	13	Pulley D	502234254
	14	Belt FR	020834188
	15	Assy Flywheel RA	500933312
	16	Belt SR	020844200
	17	Bracket MM	501193073
	18	Assy Motor	500934328
	19	Wire M M	160724055
	20	Assy PWB	500934345
	21	PWB	500703107
	22	9P Housing	S9BPH-K-S
	23	Spring.Switch	010824646
	24	Photo Interrupter	SG211V
	25	Resistor	ERDS2TJ471
	26	Mode Switch	MSW17220MVQO
	27	Spacer	502004086
	28	Spring	010824598
	29	Spring	010824597
	30	Screw	GSE10A2003
	31	Screw	GSP11A2012
	32	Screw	GSP10A2603
	33	Washer	GWP23X040020
	34	Box SW	502194028
	35	Washer	GWP21X045020
	36	Screw	GSL10A1704
	37	Spring	010814657
	38	Screw	GSE10A2004
	39	Washer	GWP12X030040S

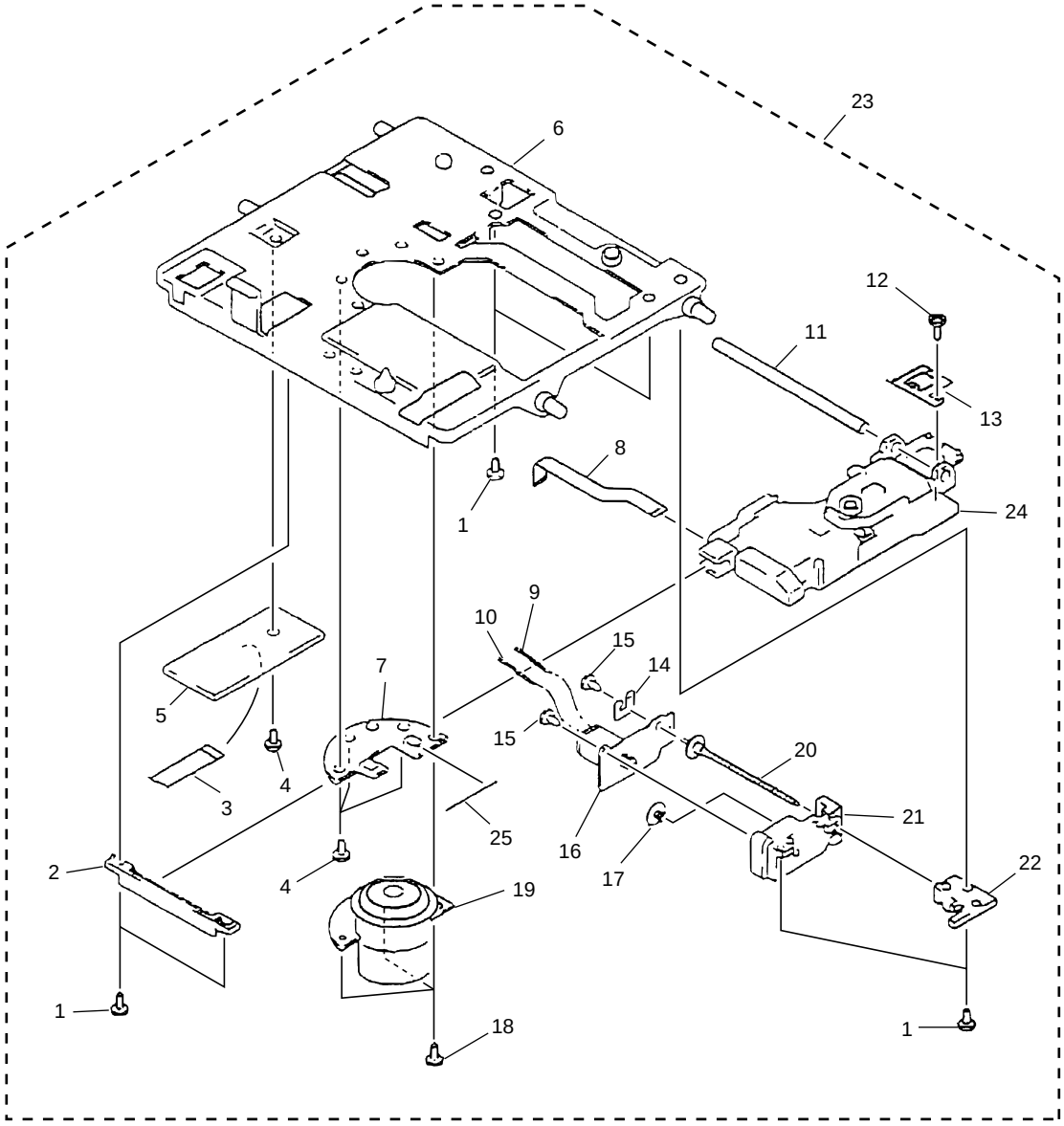
2.9 MD MECHA (1/2) LOADING ASSY



• MD MECHA (1/2) LOADING ASSY PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Motor Plate Assy	X-2646-247-1
	2	Screw +P2.6×4.5 TYPE3	7-627-854-28
	3	L-SW Mount Board	1-668-261-11
	4	Wire Flat Type (6p)	1-783-386-11
	5	Gear (Relay B)	2-646-555-02
	6	Gear (Relay A)	2-646-554-01
	7	Slot Frame Assy	X-2646-249-2
	8	Spring (Slot Arm)	2-646-563-01
	9	Arm Slot	2-646-556-01
NSP	10	Road Frame Assy	X-2646-248-2
	11	Insulator	2-646-548-01
	12	Screw	7-688-002-11
	13	Screw Step	4-628-167-01
NSP	14	Frame Slide	2-646-557-01
	15	Arm Head	2-646-559-01
	16	Spring Tension Coil (Slot Frame)	2-646-562-01
	17	Spring SP Tension (Arm Head)	2-646-561-01
	18	Cam Mode	2-646-560-01
	19	PWB Head Flexible	1-669-181-11
	20	Grip +P1.7×2.5TYPE2	2-627-529-01
	21	Over Write Head	1-550-518-12
NSP	22	Sheet Double-Fase	2-646-549-02
NSP	23	MD MOUNT	A-4917-020-A
	24	Screw Toothed Lock	2-643-228-01
	25	• • • • •	
	26	Spring (Door Arm) Tension	2-646-545-01
NSP	27	Flame Main	2-646-547-02
	28	• • • • •	
	29	• • • • •	
	30	Loading Motor Assy	X-2626-328-1
	31	Screw +P1.7×1.8TYP.3	7-627-852-38
	32	Screw +P2×3 TYP.3	7-627-553-37
NSP	33	Loading Assy	A-4912-117-A

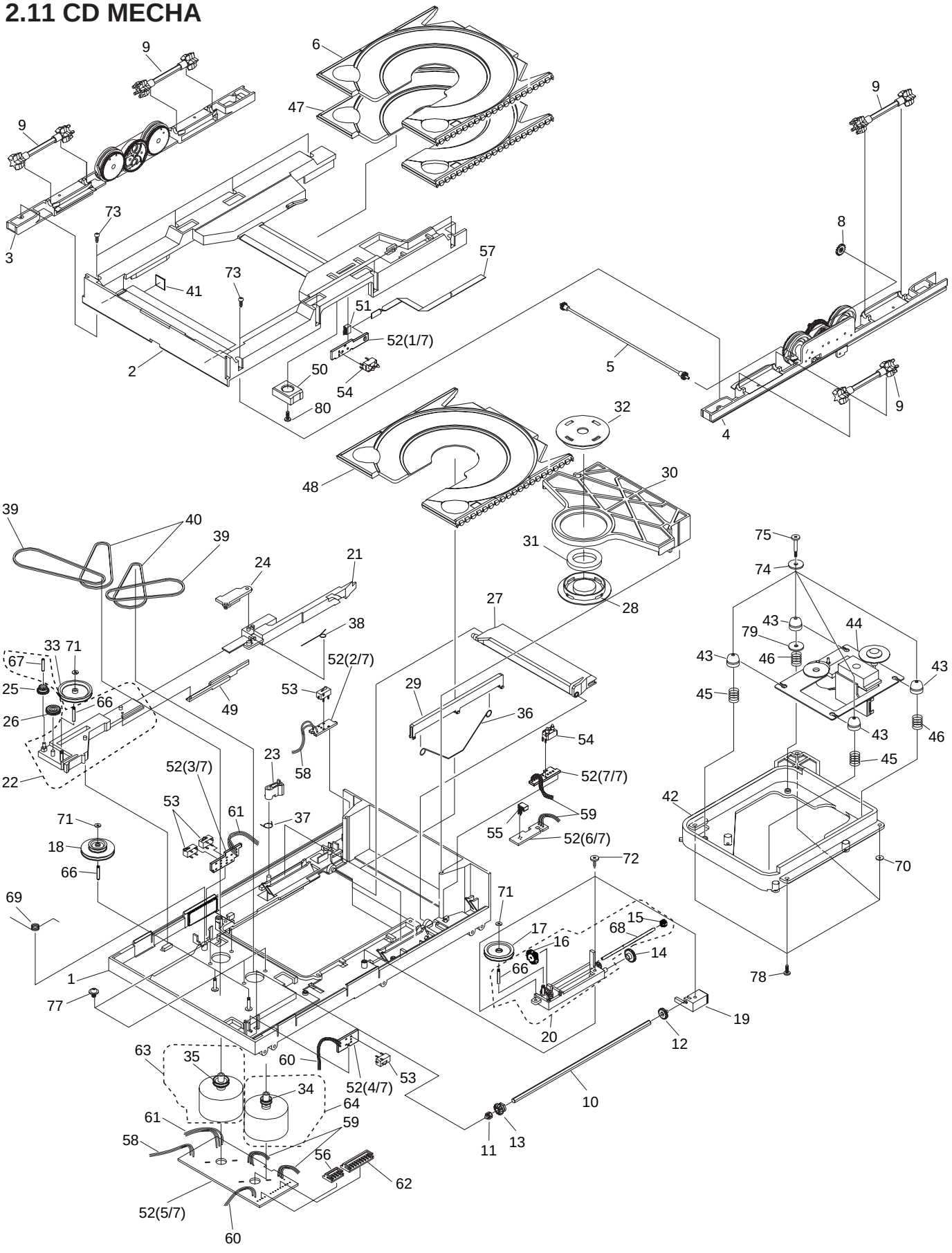
2.10 MD MECHA (2/2) DECK MECHA ASSY



• MD MECHA (2/2) DECK MECHA ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	Grip +P1.4×3.5TYPE3	2-627-404-01
	2	Guide Sub	2-646-453-01
	3	Wire Flat Type (7P)	1-783-387-11
	4	Screw+P1.4×1.8TYPE3	7-627-850-79
	5	D-SW MOUNT BOARD	1-668-262-11
NSP	6	Shassis Mechanical	2-646-575-01
	7	Bracket SP Motor	2-646-566-01
	8	PWB OP Flexible	1-669-180-11
NSP	9	Wire SL Motor Lead	1-783-318-11
NSP	10	Wire SL Motor Lead	1-783-318-21
	11	Shaft Guide	2-646-452-01
	12	Grip +P1.4×1.4TYPE2	2-627-530-01
	13	Rack (Inserter)	4-963-914-02
	14	Plate Pre Road	2-646-567-01
	15	Screw (1.2×3.3)	2-627-431-01
	16	SL Motor Assy	X-2626-329-1
	17	Gear (MD)	2-646-571-01
	18	Screw +P1.7×4 TYPE3	7-627-852-18
	19	SP Motor Assy	X-2626-327-1
	20	Lead Screw Assy	X-2626-330-1
	21	Lead Holder Assy	X-2626-331-1
	22	Holder (B) Lead	2-646-573-01
NSP	23	Deck Mecha Assy	A-4912-118-A
	24	Devise, Mini Disc	KMS-260A
	25	Spring SP Tension	2-646-564-01

2.11 CD MECHA

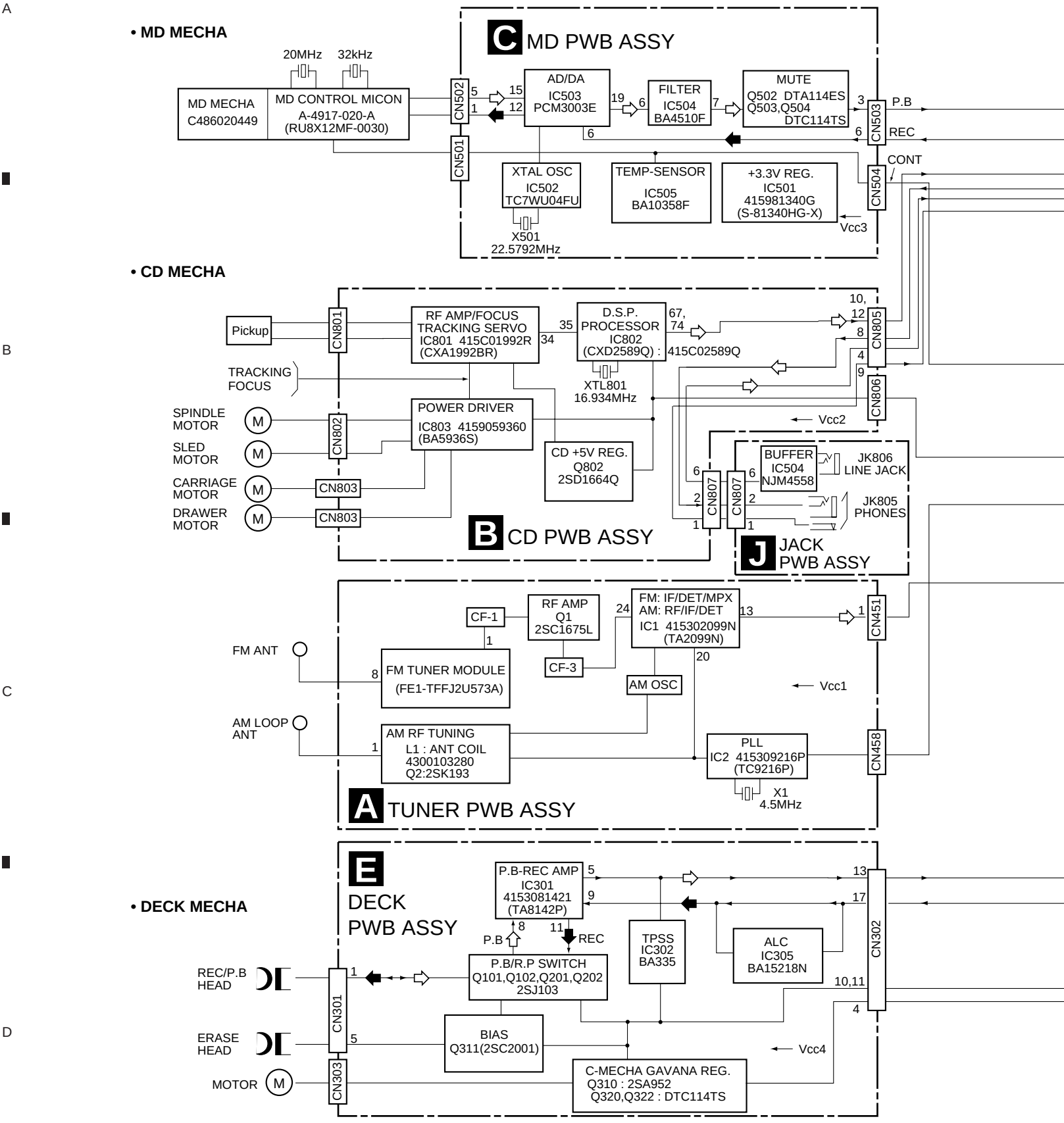

9
6
47
9
73
3
41
73
57
51
52(1/7)
50
54
80
2
9
8
5
9
4
32
48
30
39
40
39
24
21
31
28
27
38
52(2/7)
33
71
67
25
66
26
49
53
29
36
54
52(7/7)
59
55
52(6/7)
22
23
58
52(3/7)
53
61
37
71
18
66
72
69
71
17
16
68
15
14
66
1
77
20
19
12
10
11
13
63
35
34
64
60
52(4/7)
53
61
59
58
56
62
52(5/7)
60
75
74
43
79
44
43
46
43
45
43
46
45
42
70
78

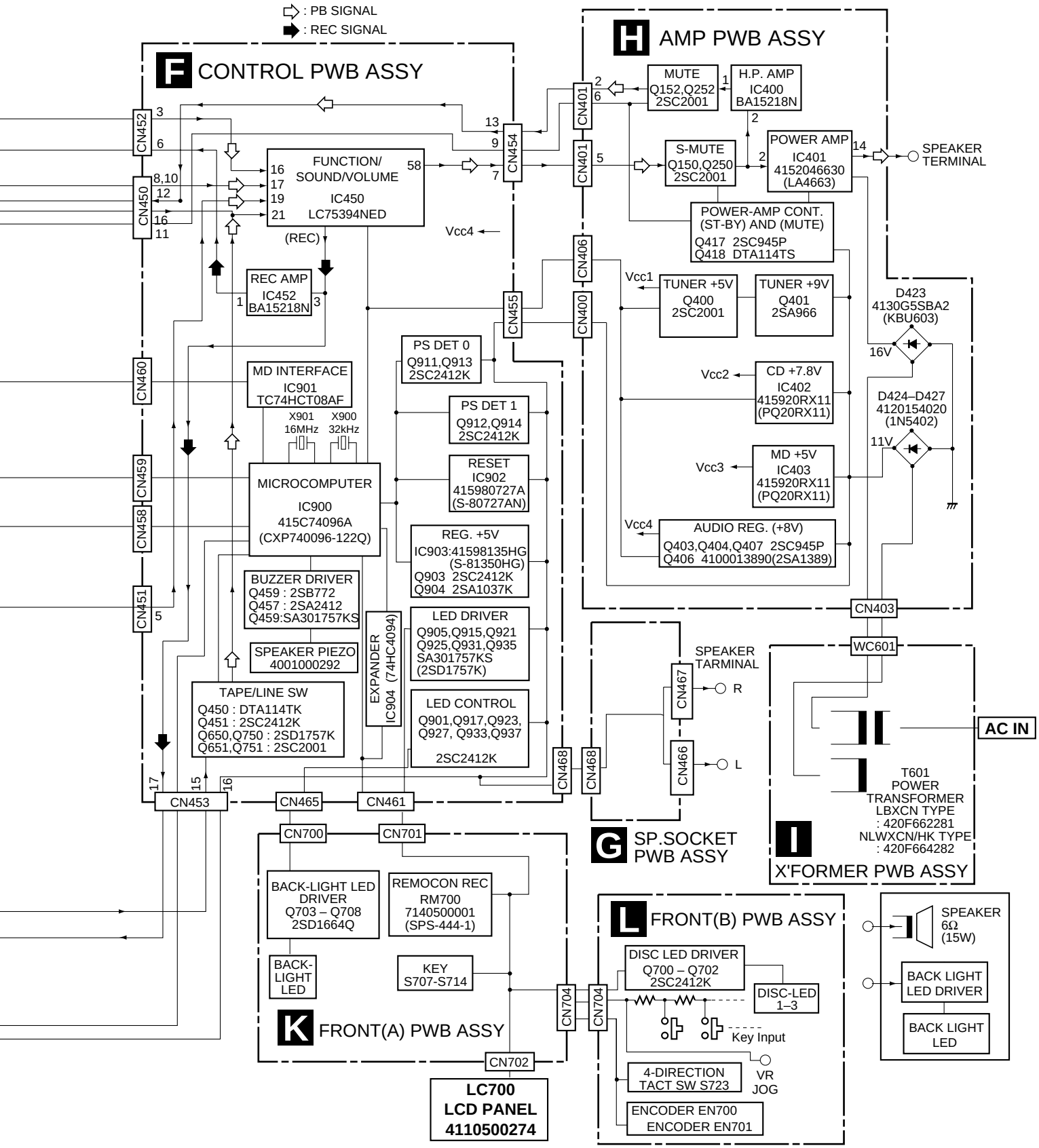
• CD MECHA PARTS LIST

Mark	No.	Description	Part No.
	1	Assy Chassis 3	45-093-4318
	2	Drawer 2	45-264-3278
	3	Assy Holder L	45-093-4088
	4	Assy Holder R3	45-093-4322
	5	Assy Gear Drive	45-093-4075
	6	Assy Carriage 100	45-093-4189
	7	• • • • •	
	8	Bevel Gear 4	45-222-4214
	9	Assy Gear Star	45-093-4084
	10	Shaft	45-300-4018
	11	Cap	45-262-4019
	12	Gear Spring	45-222-4021
	13	Bevel Gear 1	45-222-4059
	14	Gear Idler 1	45-222-4026
NSP	15	Gear Idler 3	45-222-4067
NSP	16	Bevel Gear 3	45-222-4061
	17	Pulley C	45-222-4058
	18	Pulley B	45-229-4053
	19	Holder 2	45-219-4062
	20	Assy Holder 1	45-093-4076
	21	Slider 1	45-259-2031
	22	Assy Slider 2	45-093-4091
	23	Arm Stopper A2	45-239-4279
	24	Arm Stopper B	45-239-4065
	25	Gear Idler A	45-222-4128
	26	Gear Idler C	45-222-4051
	27	Lever	45-259-3008
	28	Clamper A	45-229-3024
	29	Lifter	45-259-3025
	30	Arm	45-239-1037
	31	Magnet	36-067-4044
	32	Clamper B	45-229-3069
	33	Pulley A	45-222-4052
NSP	34	Pulley Motor	23-226-4031
NSP	35	Pulley Motor	23-226-4096
	36	Spring	01-000-4541
	37	Spring	01-082-4558
	38	Spring	01-082-4559
	39	Belt	02-083-4157
	40	Belt	02-083-4152
	41	Cushion	45-063-4136
	42	Frame S	45-211-3072
	43	Rubber Cushion SO	45-063-4072
	44	Pick-up Unit	KSM213CCM
	45	Spring	01-081-4561
	46	Spring	01-081-4562
	47	Assy Carriage 200	45-093-4190
	48	Assy Carriage 300	45-093-4191
	49	Plate E	45-219-4107
	50	Spacer SW	45-219-4127
	51	Connector	04FM-1.0SP
	52	PC Board	45-070-4074
	53	Switch	MPU10101MMB0
	54	Switch	MPU20273BLB0
	55	Connector	04FM-1.0ST
	56	Connector	S4BEH
	57	Card Wire	45-072-4077
	58	Wire	45-070-4080
	59	Wire	45-072-4078
	60	Wire	45-070-4081
	61	Wire	45-072-4079
	62	Connector	S9BEH
	63	Assy Motor DRW	45-093-4093
	64	Assy Motor CRG	45-093-4092
	65	• • • • •	
NSP	66	Shaft	03-300-4404
NSP	67	Shaft	03-300-4403
NSP	68	Shaft	03-300-4409
	69	Spring	01-082-4577
	70	Washer	GWP23X055025
	71	Washer	GWP15X045025S
	72	Screw	GSL20A2010
	73	Screw	GSL10B2006
	74	Washer	GSN31X120050
	75	Screw	03-300-4366
	76	• • • • •	
	77	Screw	GSP14A2604
	78	Screw	GSL20A2610
	79	Washer	03-000-4427
	80	Screw	GST15A2005

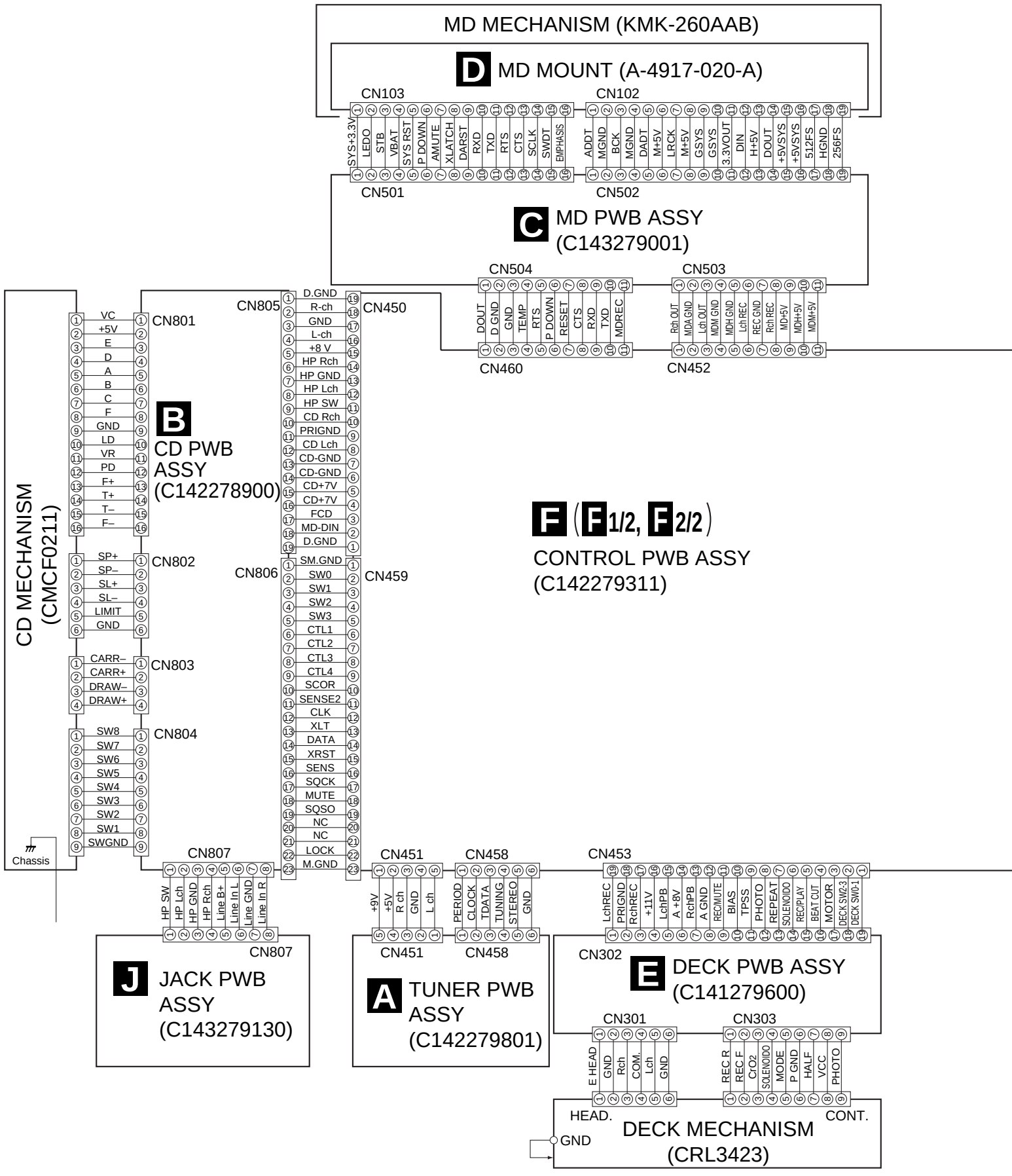
3.BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

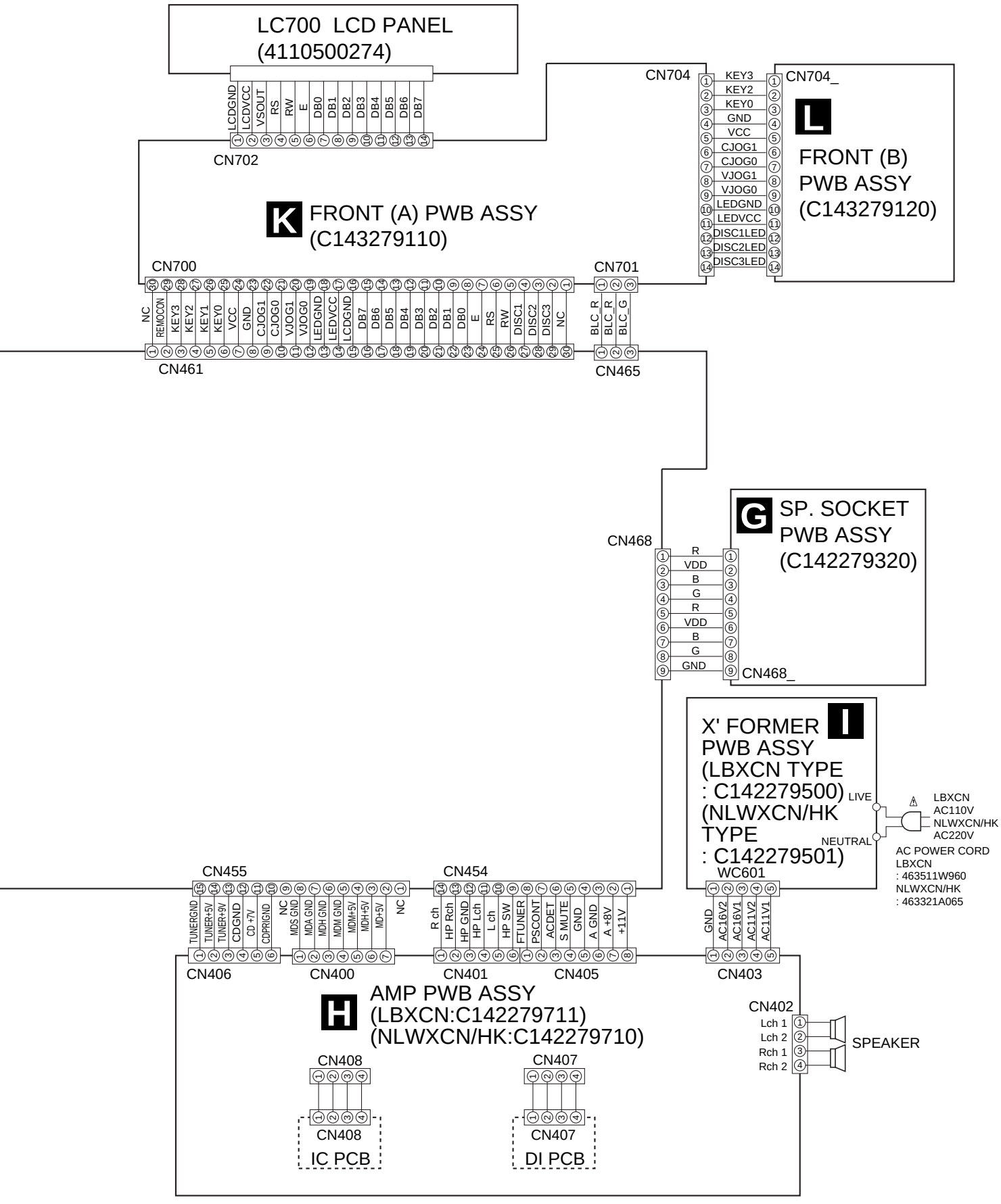



: PB SIGNAL
: REC SIGNAL
F CONTROL PWB ASSY
H AMP PWB ASSY
CN452
CN450
CN451
CN459
CN458
CN460
CN454
CN401
CN406
CN400
CN455
CN403
CN468
CN453
CN465
CN461
CN700
CN701
CN467
CN466
CN704
CN702
WC601
FUNCTION/ SOUND/VOLUME
IC450
LC75394NED
(REC)
Vcc4
REC AMP
IC452
BA15218N
MUTE
Q152,Q252
2SC2001
H.P. AMP
IC400
BA15218N
S-MUTE
Q150,Q250
2SC2001
POWER AMP
IC401
4152046630
(LA4663)
SPEAKER TERMINAL
POWER-AMP CONT. (ST-BY) AND (MUTE)
Q417 2SC945P
Q418 DTA114TS
Vcc1
TUNER +5V
Q400
2SC2001
TUNER +9V
Q401
2SA966
D423
4130G5SBA2
(KBU603)
16V
Vcc2
CD +7.8V
IC402
415920RX11
(PQ20RX11)
D424–D427
4120154020
(1N5402)
11V
Vcc3
MD +5V
IC403
415920RX11
(PQ20RX11)
Vcc4
AUDIO REG. (+8V)
Q403,Q404,Q407 2SC945P
Q406 4100013890(2SA1389)
PS DET 0
Q911,Q913
2SC2412K
PS DET 1
Q912,Q914
2SC2412K
MD INTERFACE
IC901
TC74HCT08AF
X901 16MHz
X900 32kHz
MICROCOMPUTER
IC900
415C74096A
(CXP740096-122Q)
RESET
IC902
415980727A
(S-80727AN)
REG. +5V
IC903:41598135HG
(S-81350HG)
Q903 2SC2412K
Q904 2SA1037K
BUZZER DRIVER
Q459 : 2SB772
Q457 : 2SA2412
Q459:SA301757KS
SPEAKER PIEZO
4001000292
TAPE/LINE SW
Q450 : DTA114TK
Q451 : 2SC2412K
Q650,Q750 : 2SD1757K
Q651,Q751 : 2SC2001
EXPANDER
IC904 (74HC4094)
LED DRIVER
Q905,Q915,Q921
Q925,Q931,Q935
SA301757KS
(2SD1757K)
LED CONTROL
Q901,Q917,Q923,
Q927, Q933,Q937
2SC2412K
SPEAKER TARMINAL
R
L
G SP.SOCKET PWB ASSY
AC IN
T601
POWER TRANSFORMER
LBXCN TYPE
: 420F662281
NLWXCN/HK TYPE
: 420F664282
I X'FORMER PWB ASSY
BACK-LIGHT LED DRIVER
Q703 – Q708
2SD1664Q
REMOCON REC
RM700
7140500001
(SPS-444-1)
BACK-LIGHT LED
KEY
S707-S714
K FRONT(A) PWB ASSY
LC700
LCD PANEL
4110500274
L FRONT(B) PWB ASSY
DISC LED DRIVER
Q700 – Q702
2SC2412K
DISC-LED
1–3
Key Input
4-DIRECTION
TACT SW S723
VR
JOG
ENCODER EN700
ENCODER EN701
SPEAKER
6Ω
(15W)
BACK LIGHT LED DRIVER
BACK LIGHT LED

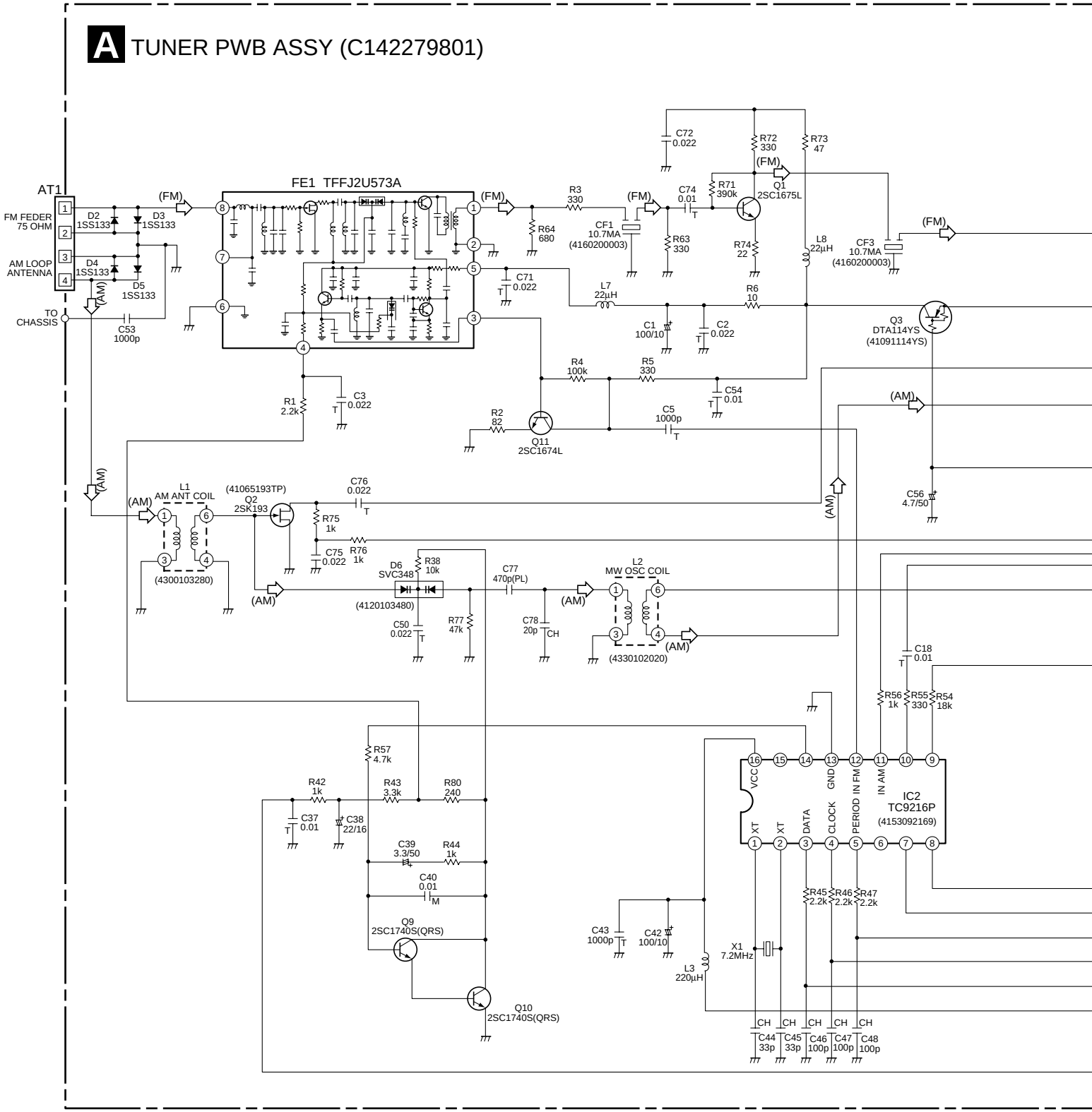
3.2 OVERALL CONNECTION DIAGRAM

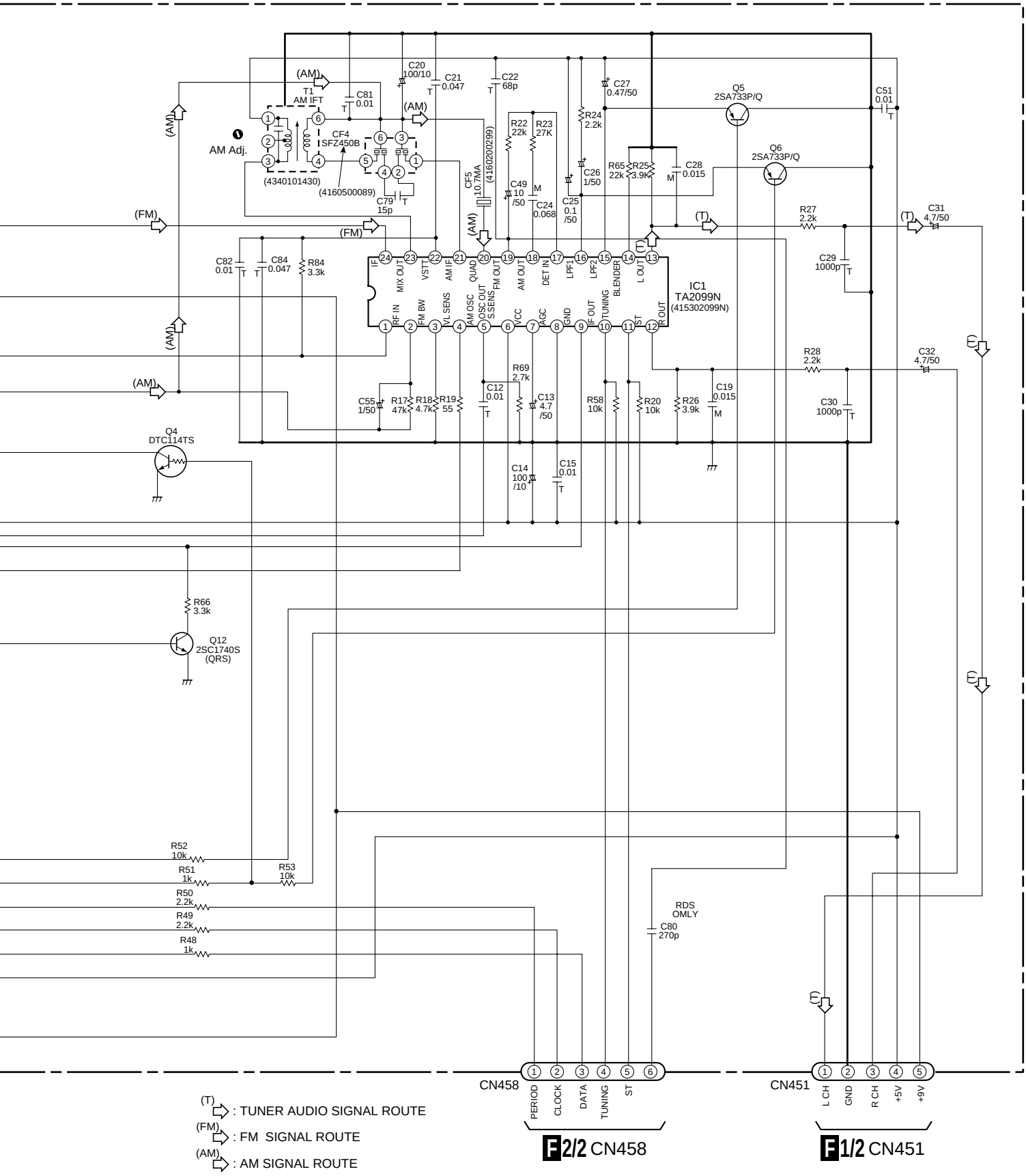


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

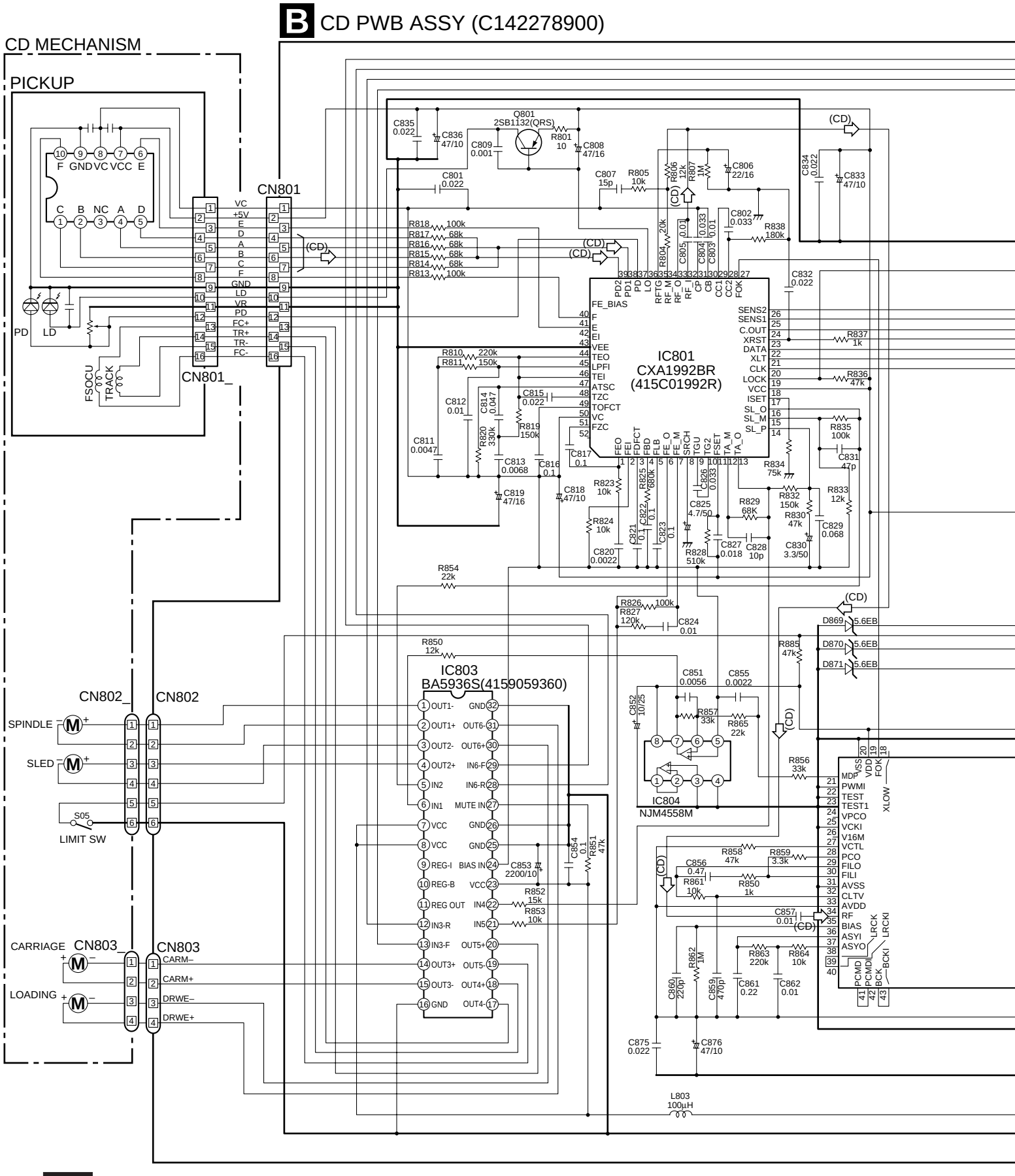


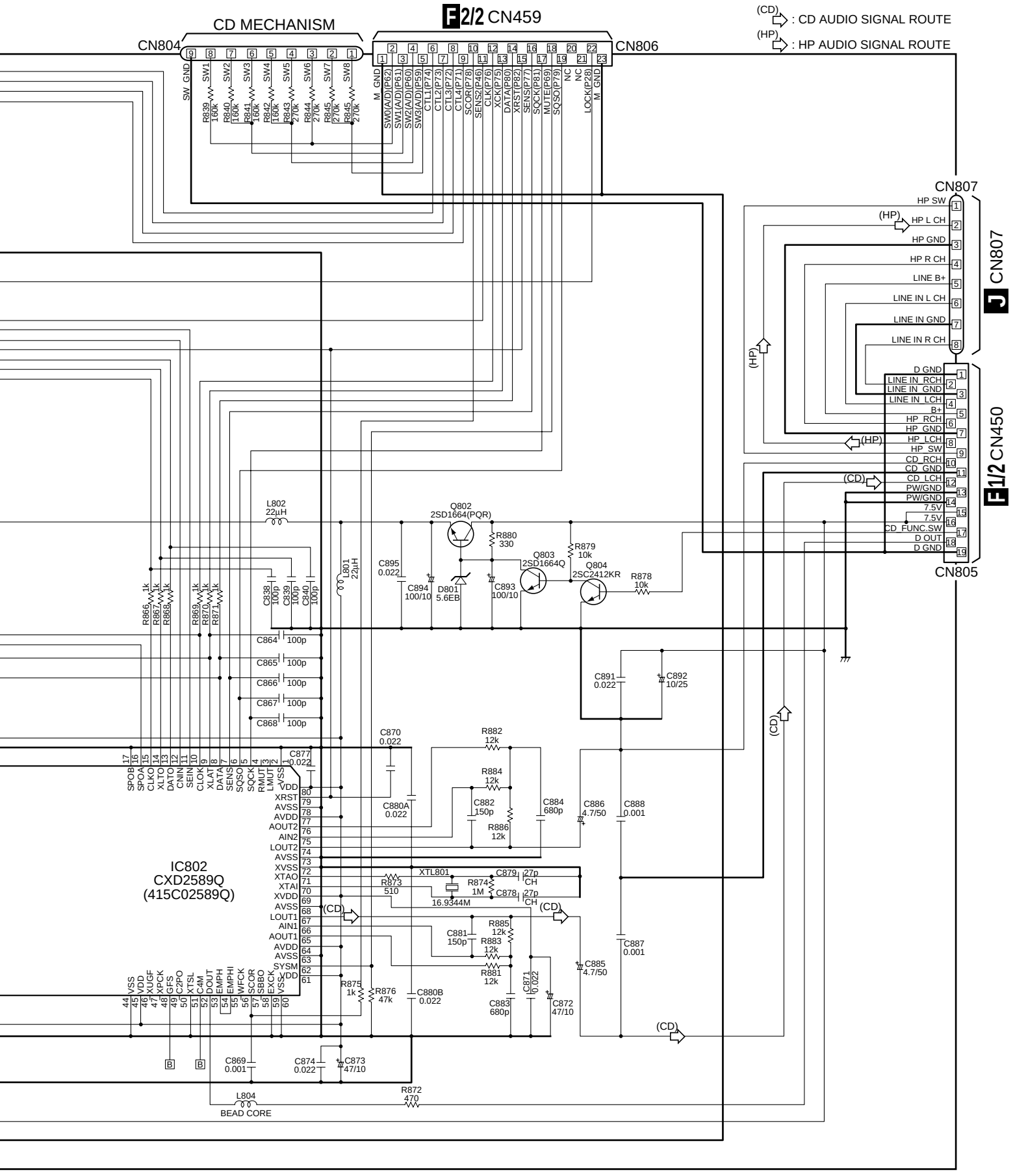
3.3 TUNER PWB ASSY




T1
AM IFT
(4340101430)
AM Adj.
CF4
SFZ450B
(4160500089)
CF5
10.7MA
(4160200299)
IC1
TA2099N
(415302099N)
IF
MIX OUT
VSTT
AM IF
QUAD
FM OUT
AM OUT
DET IN
LPF1
LPF2
BLENDER
L OUT
R OUT
RF IN
FM BW
VL SENS
AM OSC
OSC OUT
S.SENS
VCC
AGC
GND
IF OUT
TUNING
ST
Q4
DTC114TS
Q5
2SA733P/Q
Q6
2SA733P/Q
Q12
2SC1740S
(QRS)
RDS
OMLY
CN458
PERIOD
CLOCK
DATA
TUNING
ST
CN451
L CH
GND
R CH
+5V
+9V
(T) : TUNER AUDIO SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE
(AM) : AM SIGNAL ROUTE
F 2/2 CN458
F 1/2 CN451

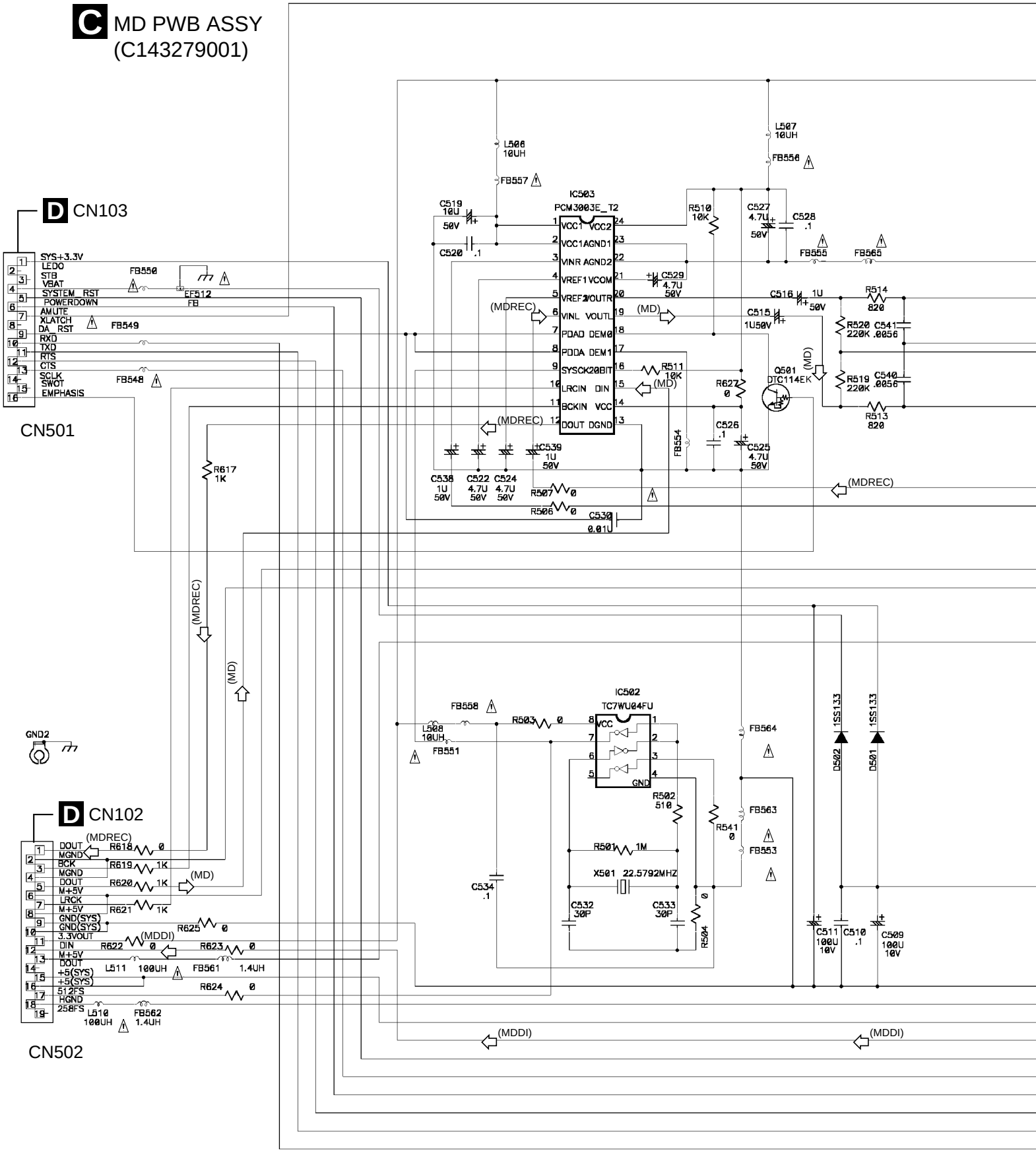
3.4 CD PWB ASSY

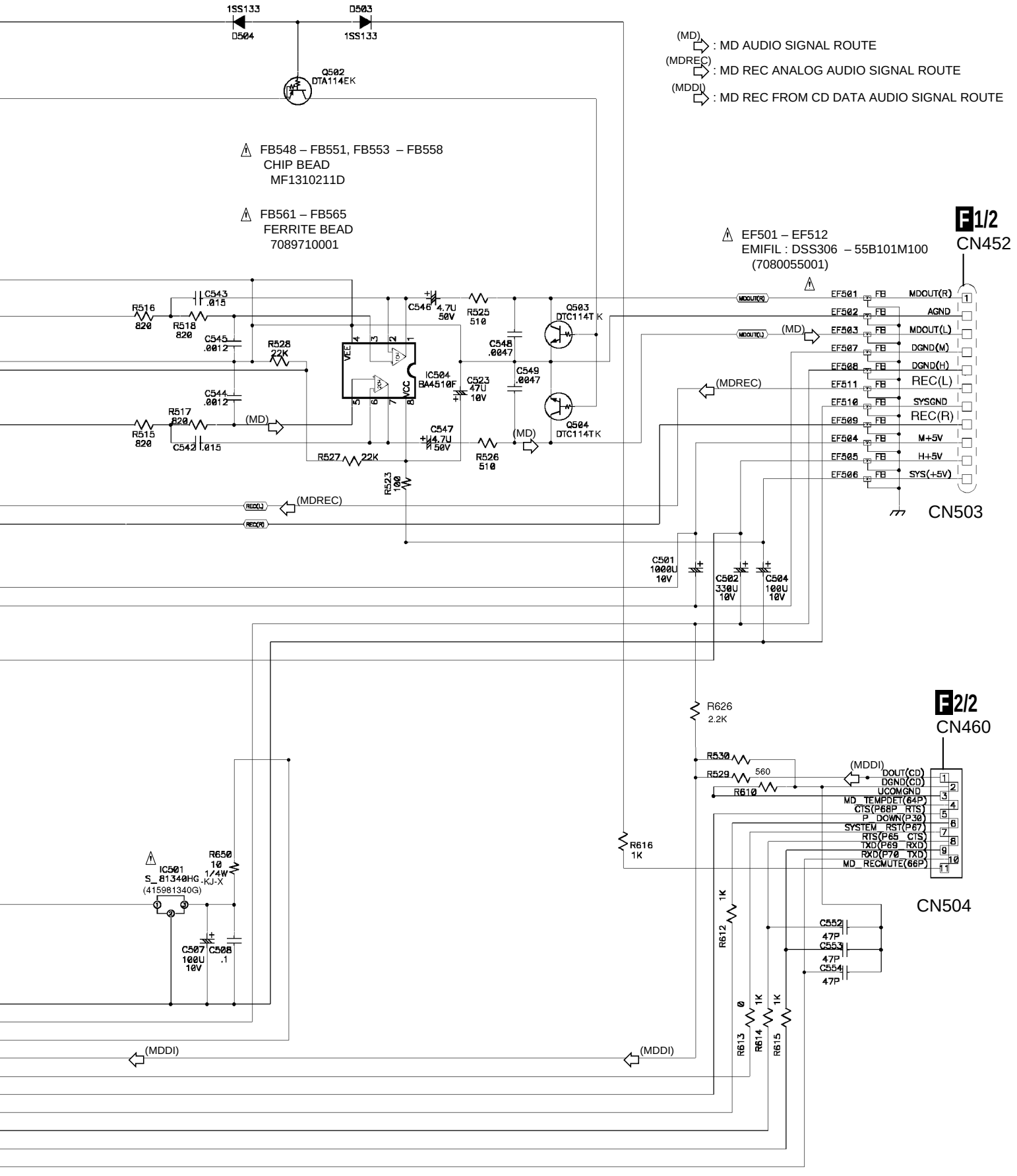



CD MECHANISM
CN804
F 2/2 CN459
CN806
(CD) : CD AUDIO SIGNAL ROUTE
(HP) : HP AUDIO SIGNAL ROUTE
CN807
J CN807
F 1/2 CN450
CN805
IC802
CXD2589Q
(415C02589Q)
L802 22µH
L801 22µH
Q802 2SD1664(PQR)
Q803 2SD1664Q
Q804 2SC2412KR
XTL801 16.9344M
L804 BEAD CORE

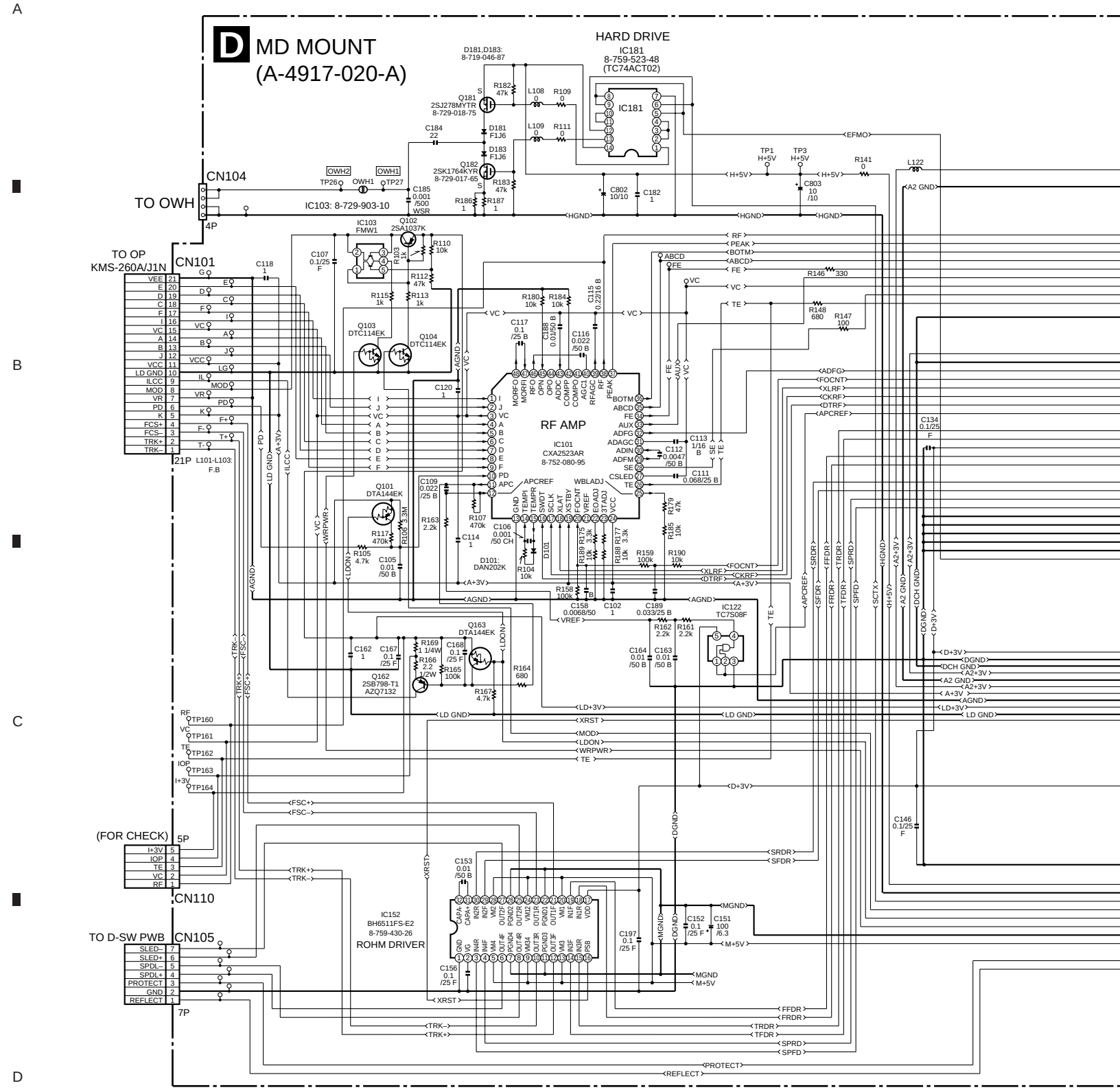
3.5 MD PWB ASSY

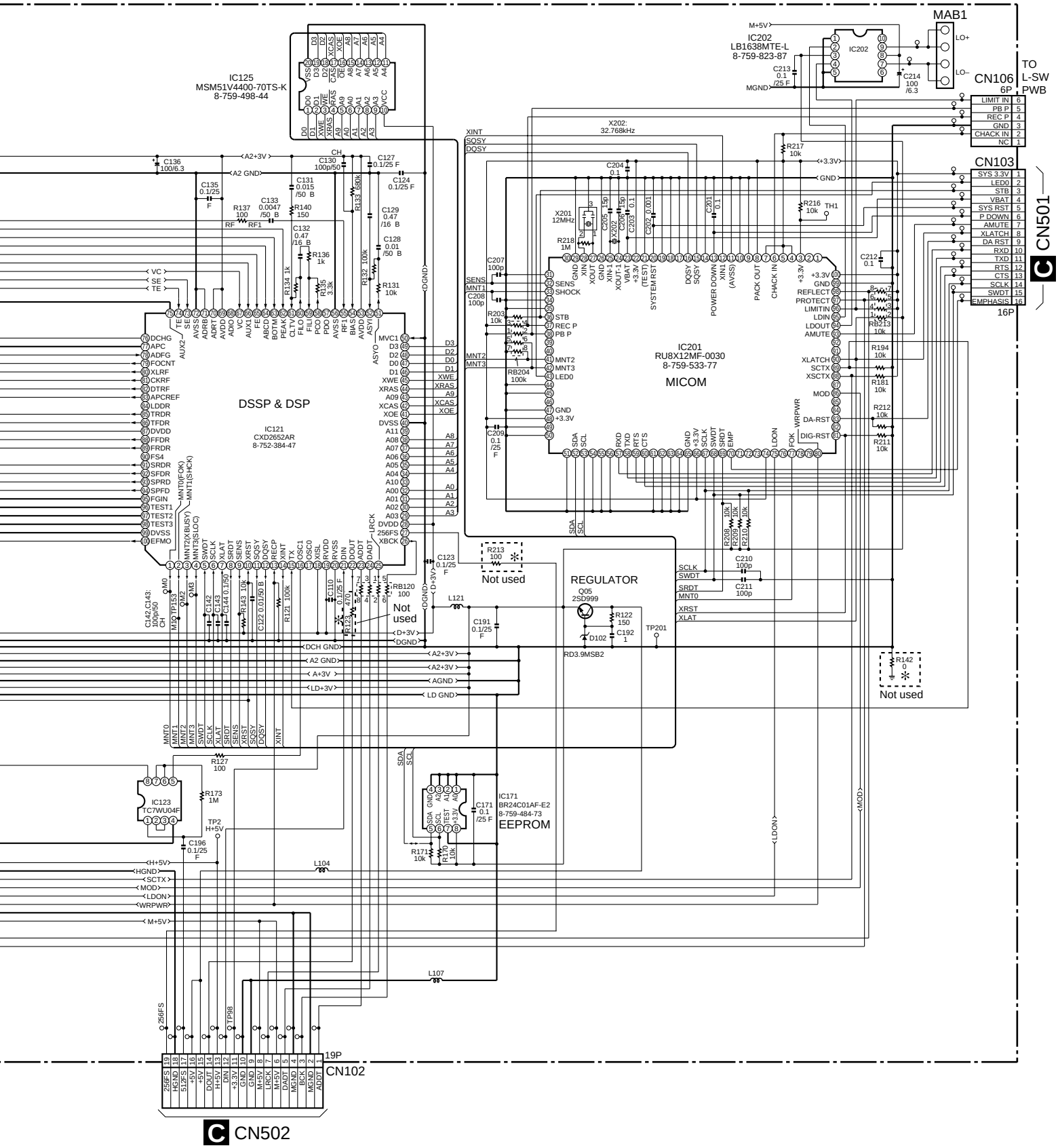
C MD PWB ASSY
(C143279001)



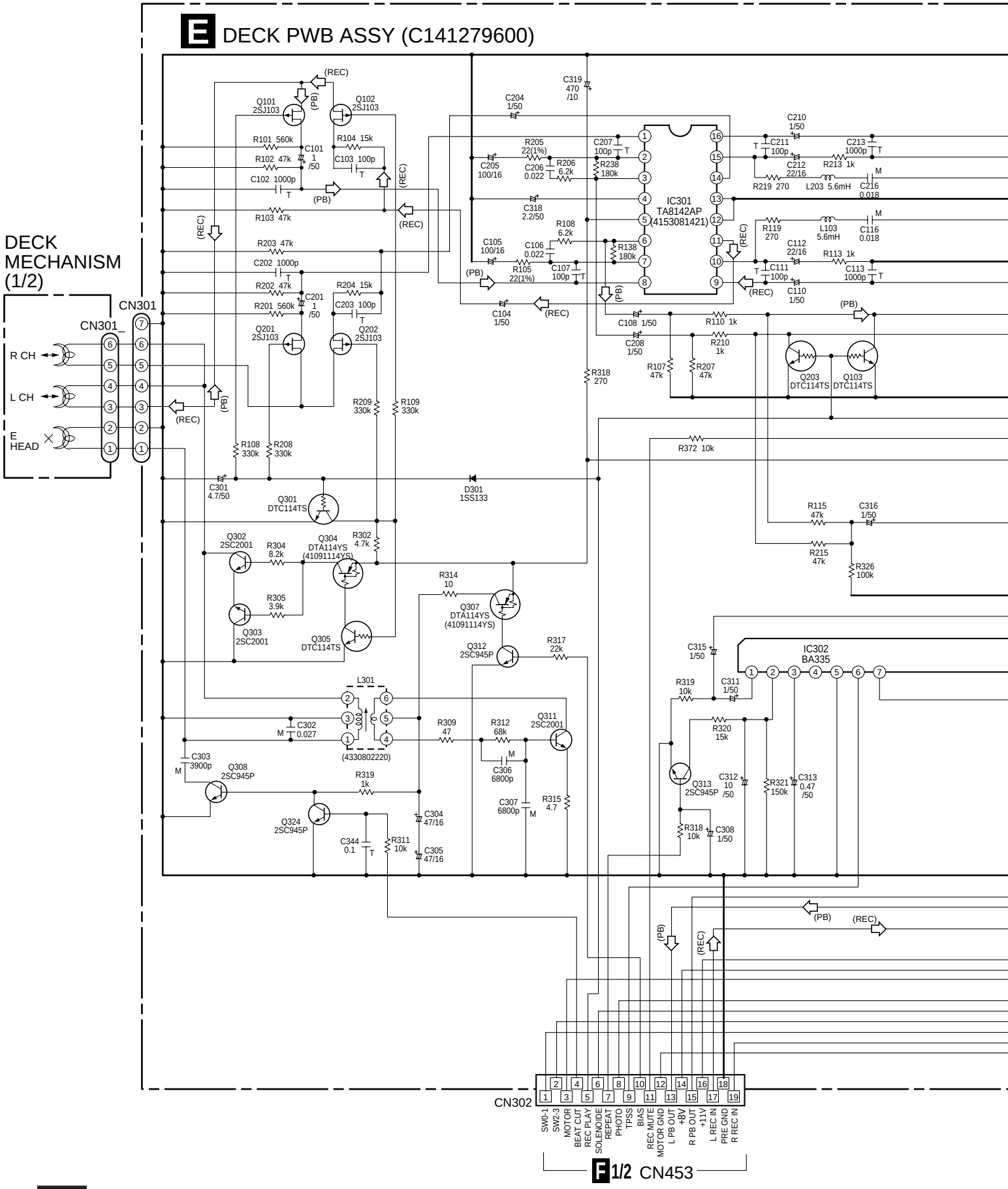

1SS133
D504
D503
1SS133
Q502
DTA114EK
(MD) : MD AUDIO SIGNAL ROUTE
(MDREC) : MD REC ANALOG AUDIO SIGNAL ROUTE
(MDDI) : MD REC FROM CD DATA AUDIO SIGNAL ROUTE
FB548 – FB551, FB553 – FB558
CHIP BEAD
MF1310211D
FB561 – FB565
FERRITE BEAD
7089710001
EF501 – EF512
EMIFIL : DSS306 – 55B101M100
(7080055001)
F1/2
CN452
EF501 FB MDOUT(R) 1
EF502 FB AGND 2
EF503 FB MDOUT(L) 3
EF507 FB DGND(M) 4
EF508 FB DGND(H) 5
EF511 FB REC(L) 6
EF510 FB SYSGND 7
EF509 FB REC(R) 8
EF504 FB M+5V 9
EF505 FB H+5V 10
EF506 FB SYS(+5V) 11
CN503
R516 820
C543 .015
R518 820
C545 .0012
R528 22K
C544 .0012
R517 820
R515 820
C542 .015
C546 4.7U 50V
R525 510
Q503 DTC114TK
C548 .0047
C549 .0047
IC504 BA4510F
C523 47U 10V
Q504 DTC114TK
C547 4.7U 50V
R526 510
R527 22K
R523 100
C501 1000U 10V
C502 330U 10V
C504 100U 10V
R626 2.2K
R530
R529 560
R610
R616 1K
F2/2
CN460
(MDDI)
DOUT(CD) 1
DGND(CD) 2
UCOMGND 3
MD_TEMPDET(64P) 4
CTS(P68P_RTS) 5
P_DOWN(P30) 6
SYSTEM_RST(P67) 7
RTS(P65_CTS) 8
TXD(P69_RXD) 9
RXD(P70_TXD) 10
MD_RECMUTE(66P) 11
CN504
IC501
S_81340HG
(415981340G)
R650 10 1/4W KJ-X
C507 100U 10V
C508 .1
R612 1K
R613 0
R614 1K
R615 1K
C552 47P
C553 47P
C554 47P
(MDDI)
(MDDI)
(MD)
(MDREC)
(MD)
(MD)
(MDREC)
REC(L)
REC(R)

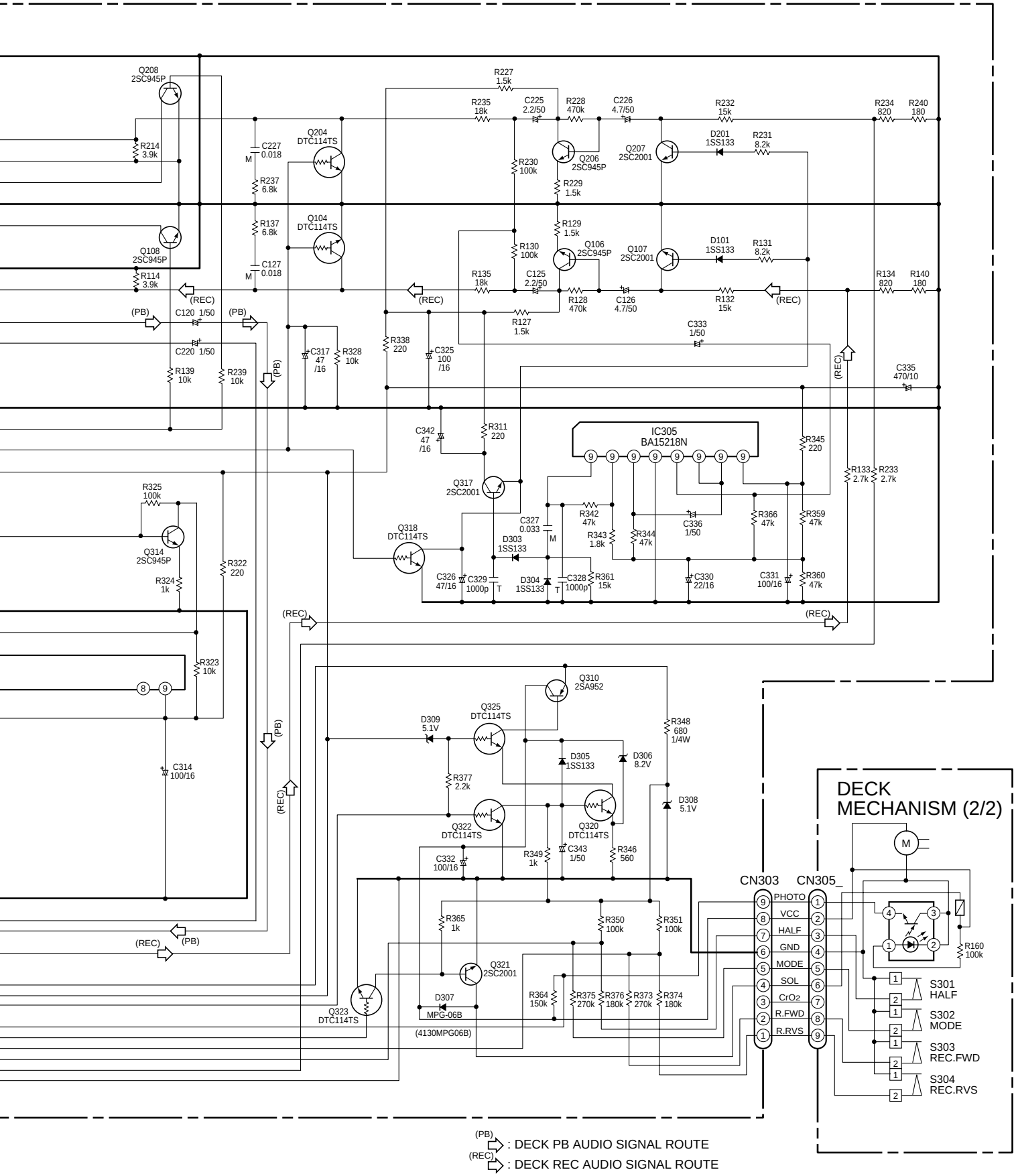
3.6 MD MOUNT


D MD MOUNT
(A-4917-020-A)
HARD DRIVE
IC181
8-759-523-48
(TC74ACT02)
D181,D183:
8-719-046-87
Q181
2SJ278MYTR
8-729-018-75
Q182
2SK1764KYR
8-729-017-65
CN104
TO OWH
IC103: 8-729-903-10
4P
CN101
TO OP
KMS-260A/J1N
21P
L101-L103:
F.B
IC101
CXA2523AR
8-752-080-95
RF AMP
IC103
FMW1
Q102
2SA1037K
Q103
DTC114EK
Q104
DTC114EK
Q101
DTA144EK
Q163
DTA144EK
Q162
2SB798-T1
AZQ7132
D101:
DAN202K
IC122
TC7S08F
IC152
BH6511FS-E2
8-759-430-26
ROHM DRIVER
CN110
(FOR CHECK)
5P
CN105
TO D-SW PWB
7P
TP160
TP161
TP162
TP163
TP164
TP26
TP27
TP1
TP3
OWH1
OWH2
H+5V
M+5V
HGND
A2 GND
AGND
DGND
MGND
LD GND
D+3V
A+3V
A2+3V
LD+3V
RF
PEAK
BOTM
ABCD
FE
VC
TE
SE
AUX
ADFG
FOCNT
XLRF
CKRF
DTRF
APCREF
APC
PD
WBLADJ
XRST
MOD
LDON
WRPWR
SRDR
SFDR
FFDR
FRDR
TRDR
TFDR
SPRD
SPFD
SCTX
TRK+
TRK–
FSC+
FSC–
PROTECT
REFLECT
VREF
IOP
I+3V


IC125
MSM51V4400-70TS-K
8-759-498-44
IC202
LB1638MTE-L
8-759-823-87
MAB1
LO+
LO–
CN106
6P
TO
L-SW
PWB
LIMIT IN
PB P
REC P
GND
CHACK IN
NC
CN103
CN501
16P
SYS 3.3V
LED0
STB
VBAT
SYS RST
P DOWN
AMUTE
XLATCH
DA RST
RXD
TXD
RTS
CTS
SCLK
SWDT
EMPHASIS
X202:
32.768kHz
X201
12MHz
IC201
RU8X12MF-0030
8-759-533-77
MICOM
DSSP & DSP
IC121
CXD2652AR
8-752-384-47
REGULATOR
Q05
2SD999
D102
RD3.9MSB2
Not used
Not used
IC123
TC7WU04F
IC171
BR24C01AF-E2
8-759-484-73
EEPROM
CN102
19P
CN502
XINT
SQSY
DQSY
SENS
MNT1
SHOCK
STB
REC P
PB P
MNT2
MNT3
LED0
SDA
SCL
RXD
TXD
RTS
CTS
SWDT
SRDT
EMP
LDON
FOK
WRPWR
DA-RST
DIG-RST
REFLECT
PROTECT
LIMITIN
LDIN
LDOUT
AMUTE
XLATCH
SCTX
XSCTX
MOD
PACK OUT
CHACK IN
POWER DOWN
SYSTEM RST
XIN1 (AVSS)
XOUT1
VBAT
XIN-1
XOUT-1
(TEST)
DCHG
APC
ADFG
FOCNT
XLRF
CKRF
DTRF
APCREF
LDDR
TRDR
TFDR
DVDD
FFDR
FRDR
FS4
SRDR
SFDR
SPRD
SPFD
FGIN
TEST1
TEST2
TEST3
DVSS
EFMO
MNT0(FOK)
MNT1(SHOCK)
MNT2(XBUSY)
MNT3(SLOC)
SWDT
SCLK
XLAT
SRDT
SENS
XRST
SQSY
DQSY
XINT
TX
OSC1
OSC0
XSL
RVDD
RVSS
DIN
DOUT
CLKT
DADT
XBCK
LRCK
256FS
DVDD
DVSS
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
XRAS
XCAS
XOE
XWE
D0
D1
D2
D3
MVC1
ASYO
ASYI
RF1
BIAS
AVDD
AVSS
PDO
PCO
FILI
FILO
CLTV
PEAK
BOTM
RFCT
AUX1
VC
AUX2
ADIO
AVDD
ADRT
ADRB
AVSS
SE
TE
VC
SE
TE
CH
A2+3V
A2 GND
A+3V
AGND
LD+3V
LD GND
DCH GND
D+3V
DGND
M+5V
H+5V
HGND
SCTX
MOD
LDON
WRPWR
256FS
TP98
TP153
TP2
TP201
L104
L107
L121
L191
L171
R213
R142
R127
R173
R196
R171
R122
R123
R121
R143
R217
R216
R218
R212
R194
R181
R211
R208
R209
R210
R213
C123
C191
C196
C171
C210
C211
C204
C207
C208
C209
C212
C213
C214
C110
C142
C143
C144
C122
C124
C125
C126
C127
C128
C129
C130
C131
C132
C133
C135
C136
C140
C141
C201
C202
C203
C205
C206
RB204
RB213
RB120
TH1

3.7 DECK PWB ASSY

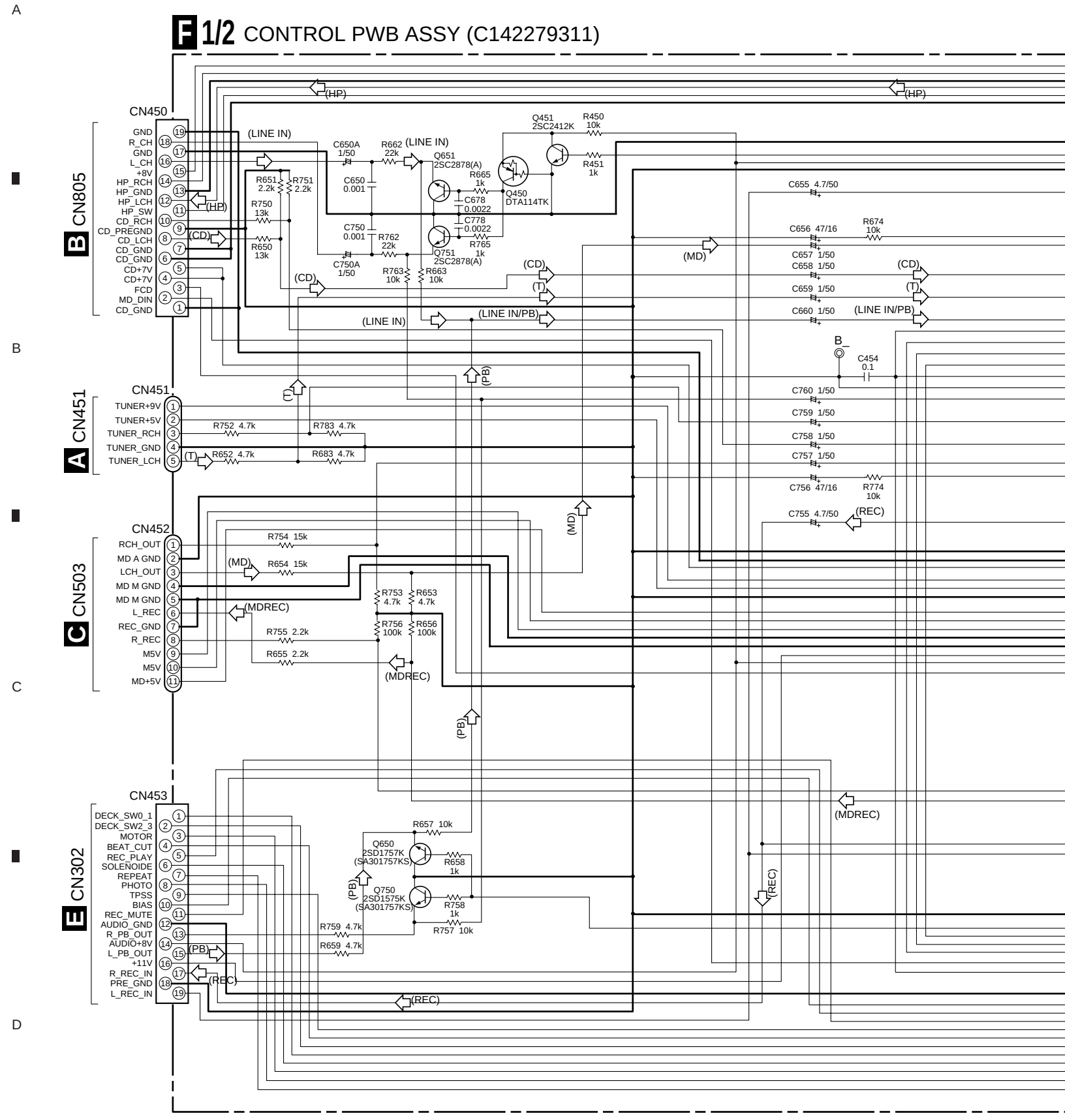




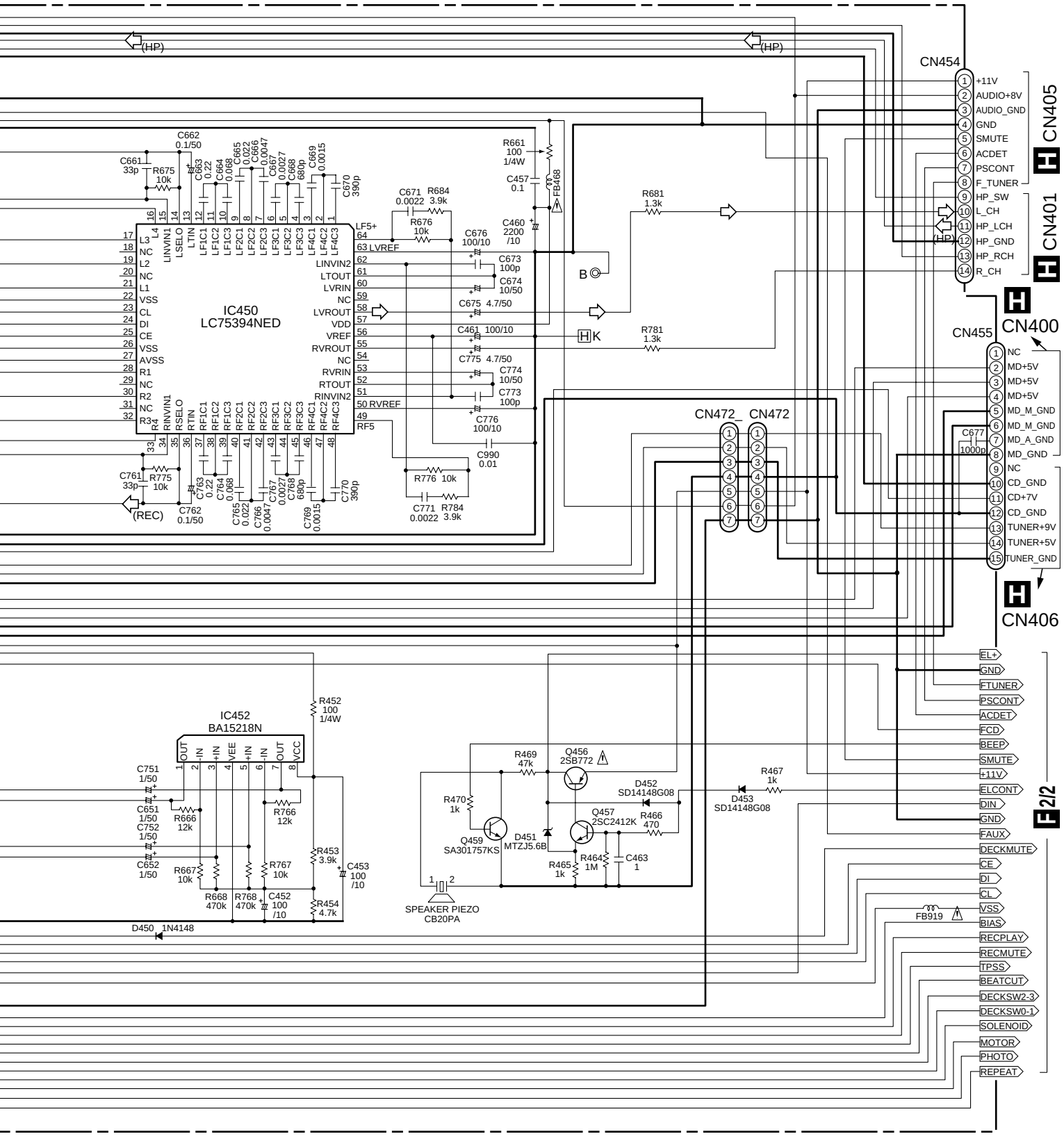
(PB) : DECK PB AUDIO SIGNAL ROUTE

(REC) : DECK REC AUDIO SIGNAL ROUTE

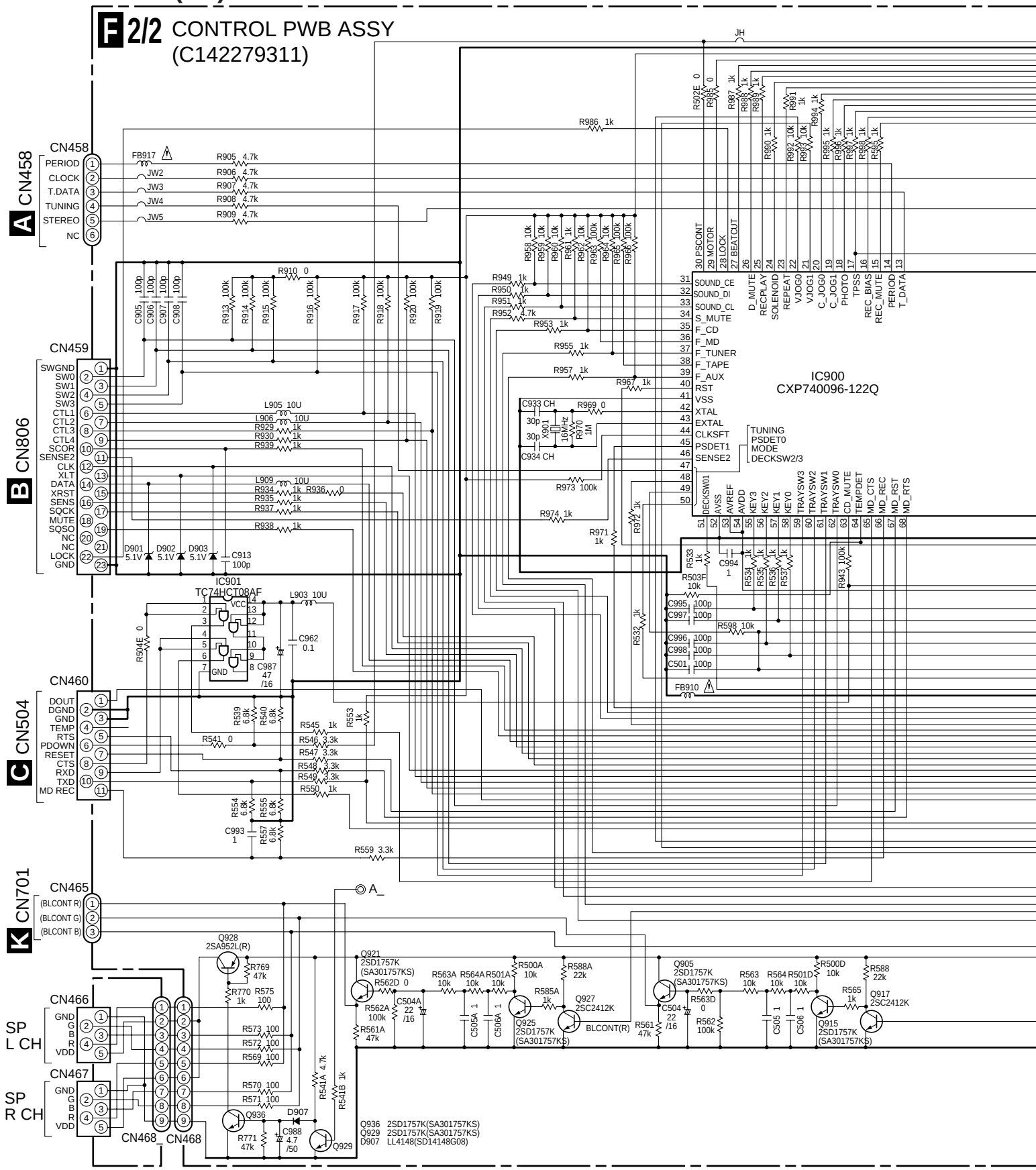
3.8 CONTROL PWB ASSY (1/2)

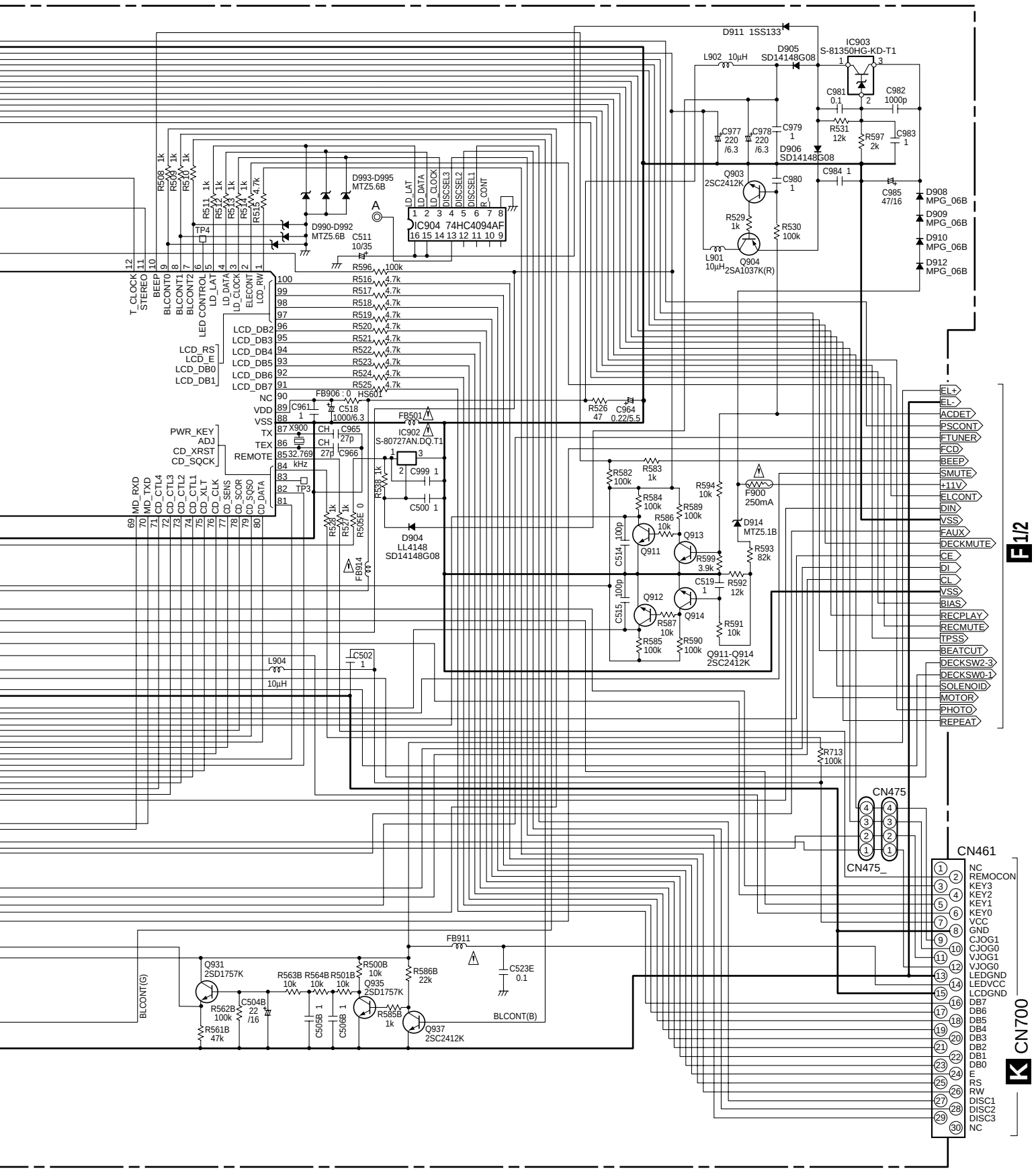


: AUDIO SIGNAL ROUTE
(T) : TUNER AUDIO SIGNAL ROUTE
(CD) : CD AUDIO SIGNAL ROUTE
(MD) : MD AUDIO SIGNAL ROUTE
(PB) : DECK PB AUDIO SIGNAL ROUTE
(REC) : DECK REC AUDIO SIGNAL ROUTE
(MDREC) : MD REC ANALOG AUDIO SIGNAL ROUTE
(HP) : HP AUDIO SIGNAL ROUTE

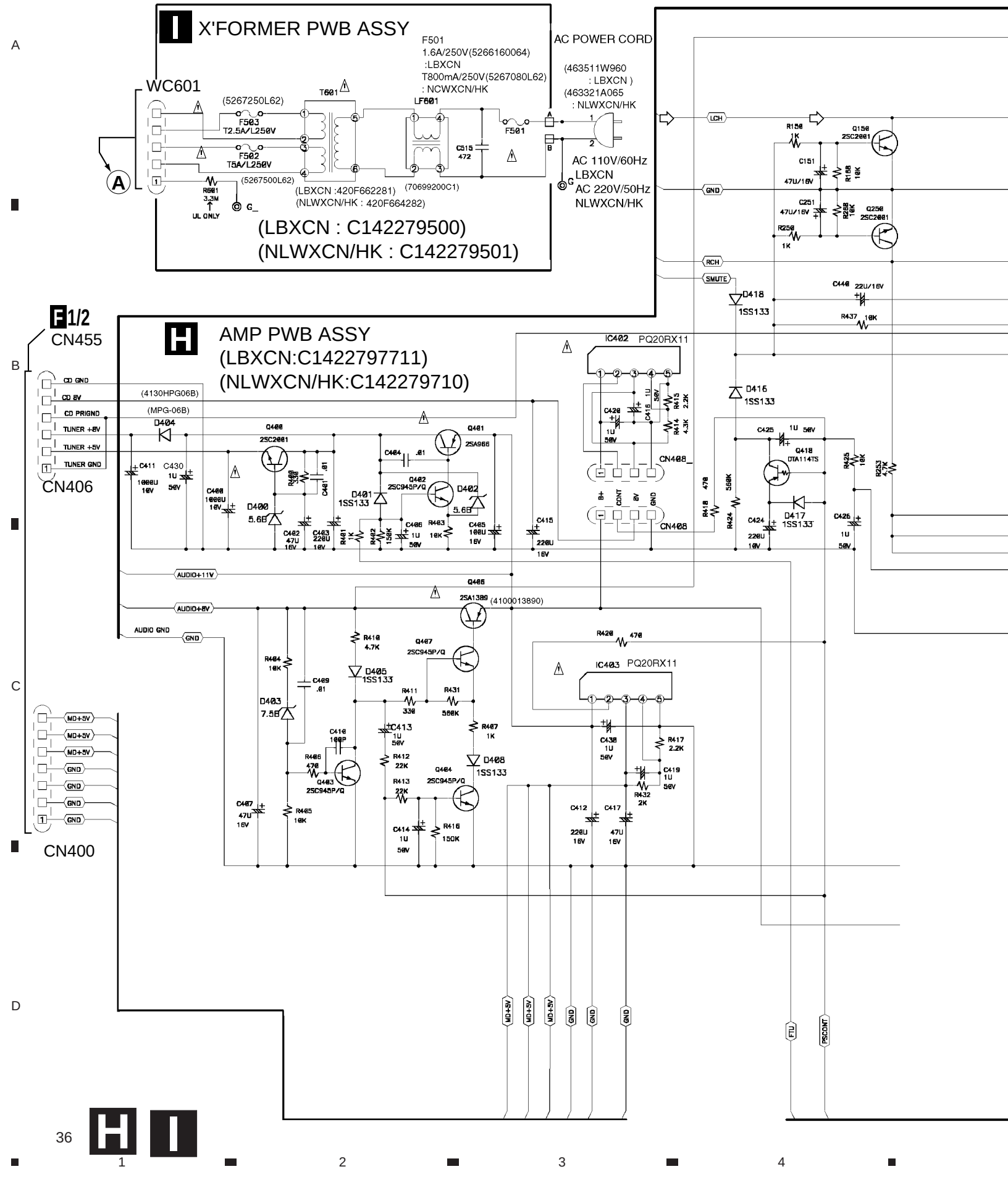


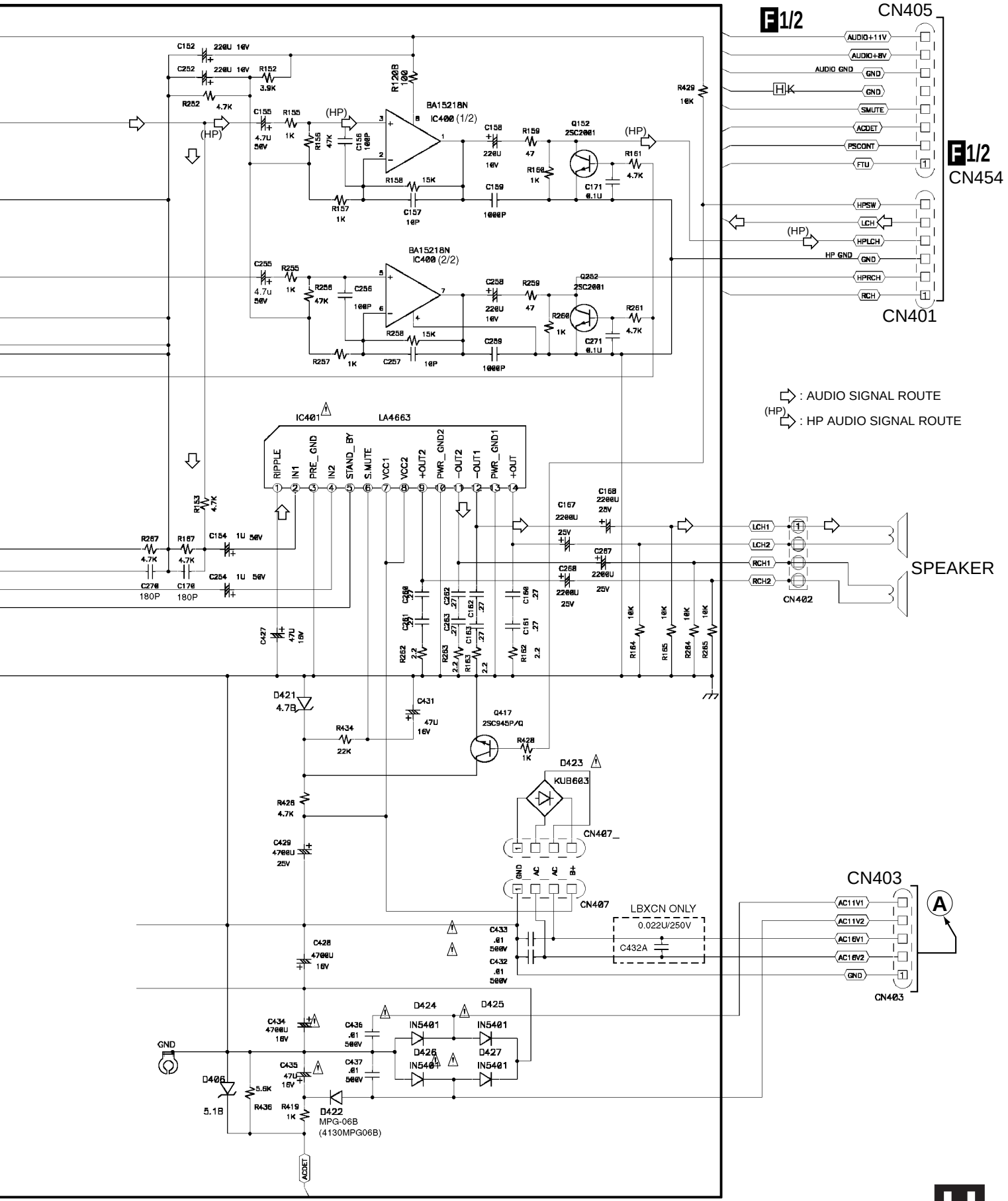
3.9 CONTROL (2/2) and SP. SOCKET PWB ASSYS



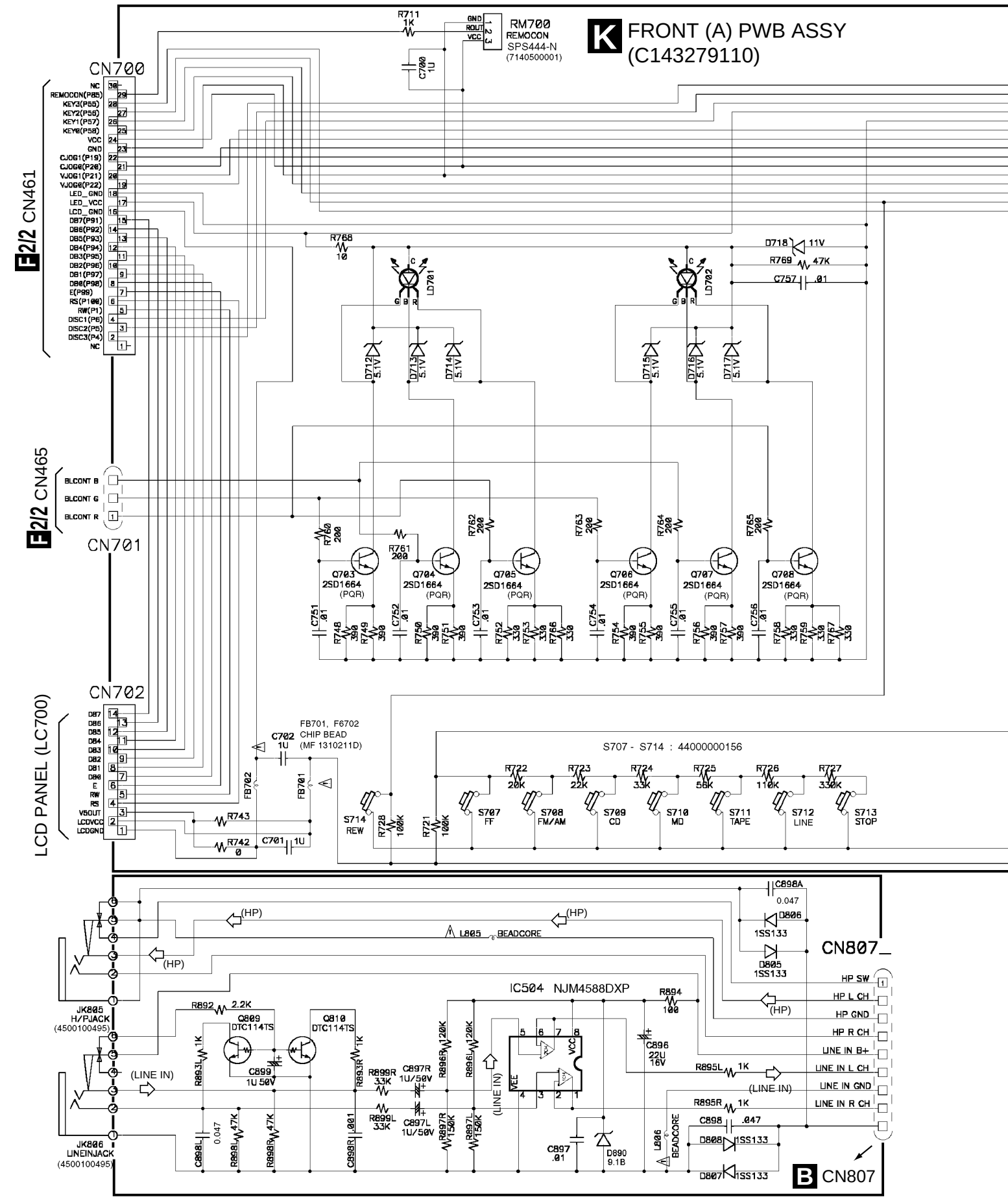

D911 1SS133
IC903 S-81350HG-KD-T1
D905 SD14148G08
L902 10µH
C981 0.1
C982 1000p
C977 220 /6.3
C978 220 /6.3
C979 1
R531 12k
R597 2k
C983 1
D906 SD14148G08
C984 1
C985 47/16
Q903 2SC2412K
C980 1
R529 1k
R530 100k
L901 10µH
Q904 2SA1037K(R)
D908 MPG_06B
D909 MPG_06B
D910 MPG_06B
D912 MPG_06B
D990-D992 MTZ5.6B
D993-D995 MTZ5.6B
IC904 74HC4094AF
LD_LAT
LD_DATA
LD_CLOCK
DISCSEL3
DISCSEL2
DISCSEL1
R_CONT
C511 10/35
R596 100k
R516 4.7k
R517 4.7k
R518 4.7k
R519 4.7k
R520 4.7k
R521 4.7k
R522 4.7k
R523 4.7k
R524 4.7k
R525 4.7k
T_CLOCK
STEREO
BEEP
BLCONT0
BLCONT1
BLCONT2
LED CONTROL
LD_LAT
LD_DATA
LD_CLOCK
ELECONT
LCD_RW
LCD_DB2
LCD_DB3
LCD_DB4
LCD_DB5
LCD_DB6
LCD_DB7
LCD_RS
LCD_E
LCD_DB0
LCD_DB1
NC
VDD
VSS
TX
TEX
REMOTE
FB906 : 0
HS601
C961 1
C518 1000/6.3
FB501
R526 47
C964 0.22/5.5
PWR_KEY
ADJ
CD_XRST
CD_SQCK
X900 32.769 kHz
CH
C965 27p
C966 27p
IC902 S-80727AN.DQ.T1
C999 1
C500 1
R538 1k
D904 LL4148 SD14148G08
FB914
MD_RXD
MD_TXD
CD_CTL4
CD_CTL3
CD_CTL2
CD_CTL1
CD_XLT
CD_CLK
CD_SENS
CD_SCOR
CD_SQSO
CD_DATA
R528 1k
R527 1k
R506E 0
R582 100k
R583 1k
R584 100k
R586 10k
R589 100k
Q911
Q913
R594 10k
F900 250mA
D914 MTZ5.1B
R593 82k
R599 3.9k
C514 100p
C519 1
R592 12k
C515 100p
Q912
Q914
R587 10k
R591 10k
R585 100k
R590 100k
Q911-Q914 2SC2412K
L904 10µH
C502 1
R713 100k
EL+
EL-
ACDET
PSCONT
FTUNER
FCD
BEEP
SMUTE
+11V
ELCONT
DIN
VSS
FAUX
DECKMUTE
CE
DI
CL
VSS
BIAS
RECPLAY
RECMUTE
TPSS
BEATCUT
DECKSW2-3
DECKSW0-1
SOLENOID
MOTOR
PHOTO
REPEAT
F 1/2
CN475
CN475_
CN461
NC
REMOCON
KEY3
KEY2
KEY1
KEY0
VCC
GND
CJOG1
CJOG0
VJOG1
VJOG0
LEDGND
LEDVCC
LCDGND
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
E
RS
RW
DISC1
DISC2
DISC3
NC
CN700
K
FB911
Q931 2SD1757K
R563B 10k
R564B 10k
R501B 10k
R500B 10k
Q935 2SD1757K
R586B 22k
C523E 0.1
BLCONT(G)
R562B 100k
C504B 22 /16
R561B 47k
C505B 1
C506B 1
R585B 1k
Q937 2SC2412K
BLCONT(B)

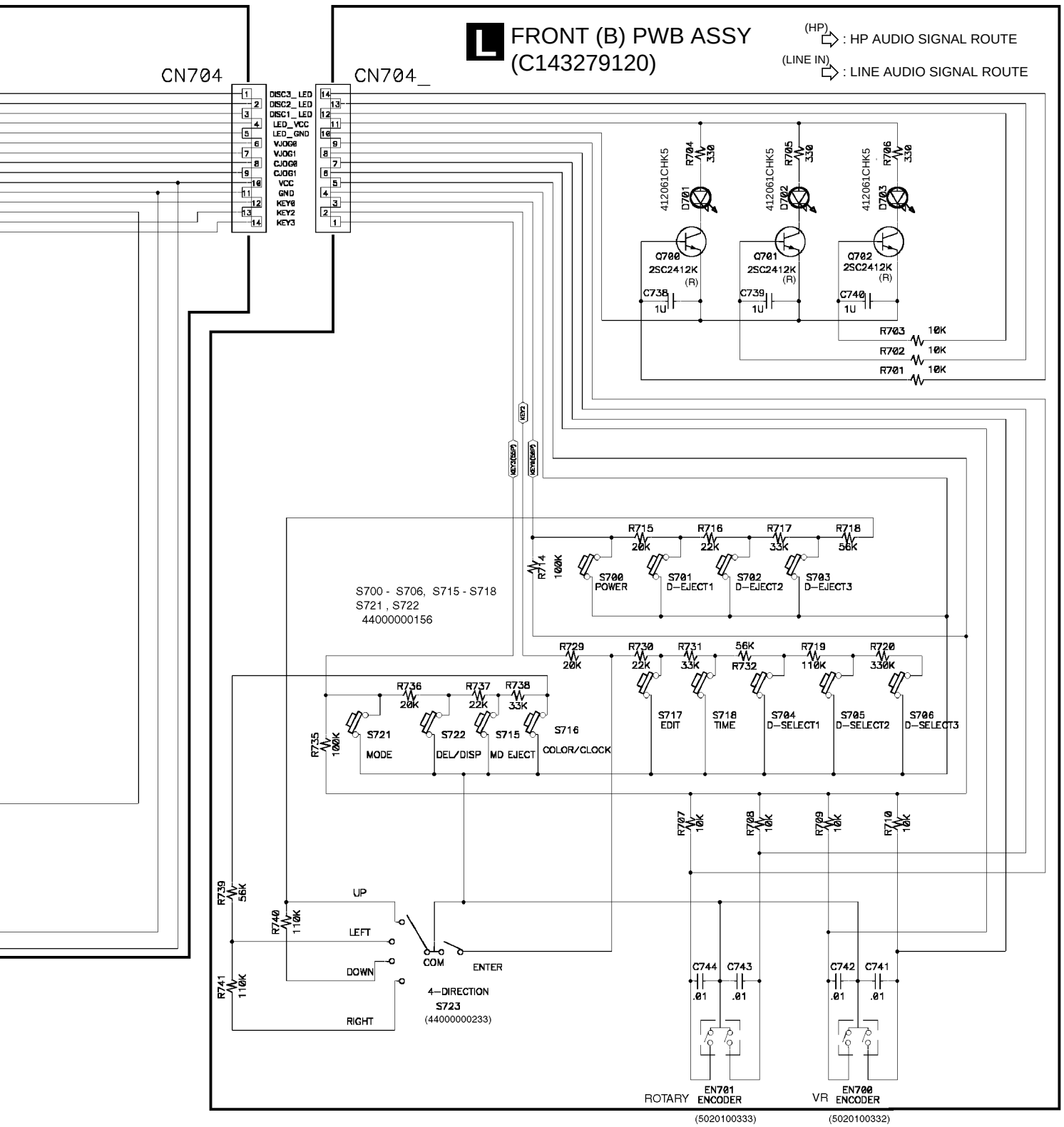
3.10 AMP and X'FORMER PWB ASSYS




CN405
F1/2
AUDIO+11V
AUDIO+8V
AUDIO GND
GND
GND
SMUTE
ACDET
PSCONT
FTU
F1/2
CN454
HPSW
LCH
HPLCH
HP GND
GND
HPRCH
RCH
CN401
BA15218N
IC400 (1/2)
BA15218N
IC400 (2/2)
(HP)
: AUDIO SIGNAL ROUTE
: HP AUDIO SIGNAL ROUTE
IC401
LA4663
RIPPLE
IN1
PRE_GND
IN2
STAND_BY
S.MUTE
VCC1
VCC2
+OUT2
PWR_GND2
-OUT2
-OUT1
PWR_GND1
+OUT
LCH1
LCH2
RCH1
RCH2
SPEAKER
CN402
D421
4.7B
D423
KUB603
CN407
CN403
LBXCN ONLY
0.022U/250V
C432A
AC11V1
AC11V2
AC16V1
AC16V2
GND
D424
D425
IN5401
D426
D427
D406
5.1B
D422
MPG-06B
(4130MPG06B)
ACDET

3.11 JACK, FRONT(A) and FRONT(B) PWB ASSYS





FRONT(A)PWB ASSY

S707 : ►► (+)
S708 : TUNER
S709 : CD
S710 : MD
S711 : TAPE
S712 : LINE
S713 : ■ (STOP)
S714 : ◄◄ (–)

FRONT(B)PWB ASSY

S700 : STAND BY/ON
S701 : ▲ (CD 1)
S702 : ▲ (CD 2)
S703 : ▲ (CD 3)
S704 : CD 1
S705 : CD 2
S706 : CD 3
S715 : ▲ (MD EJECT)
S716 : COLOR
S717 : EDIT
S718 : TIMER
S721 : REC MODE
S722 : DEL / DISP
S723 : ENTER (Jog controler)
EN701 : COLOR SELECTOR
EN700 : VOL (DOWN/UP)

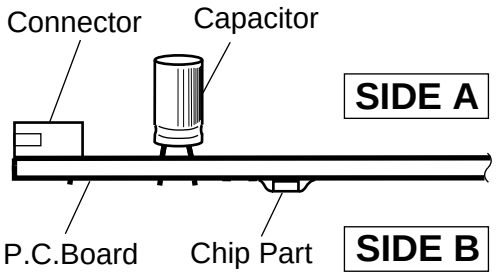
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

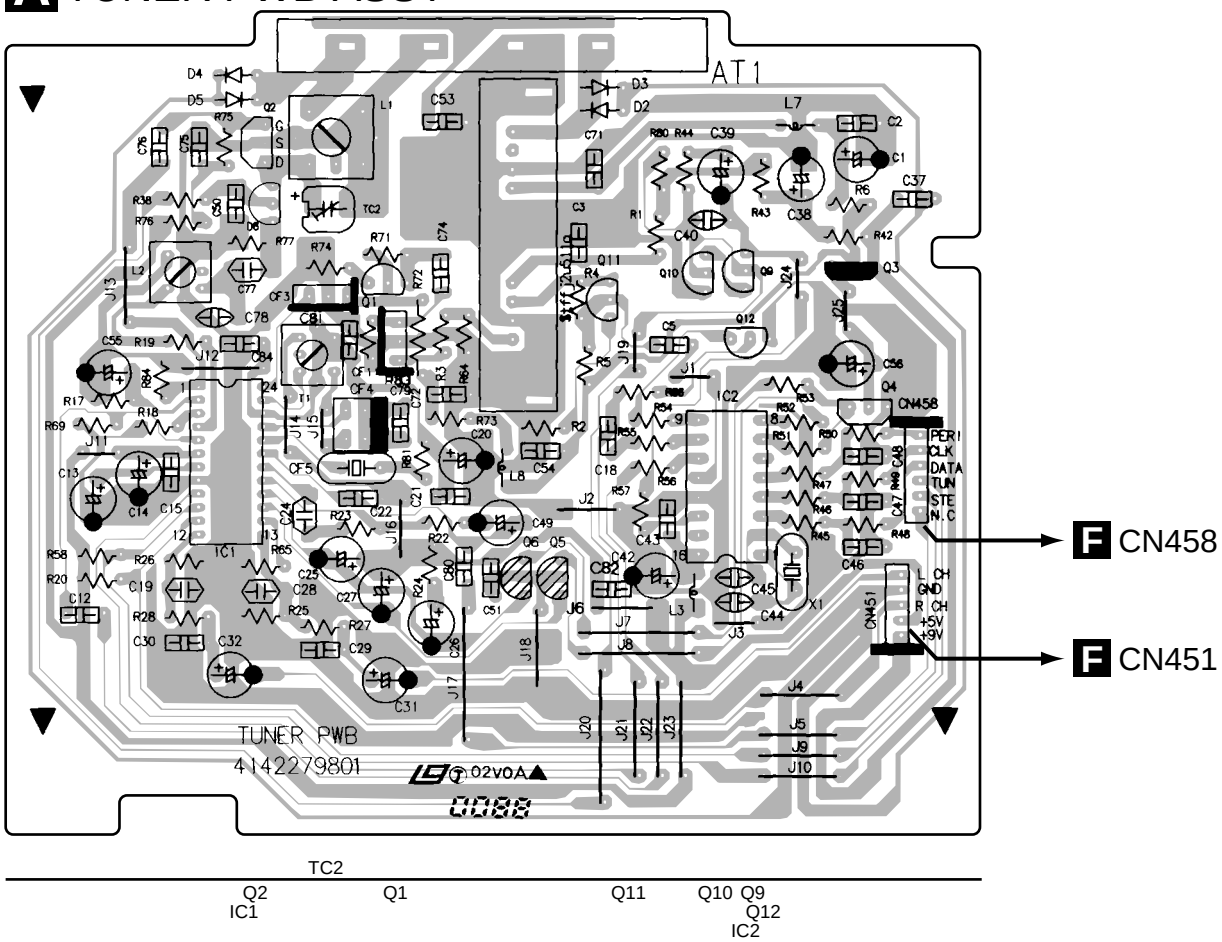
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D S G	D G S D G S	Field effect transistor

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



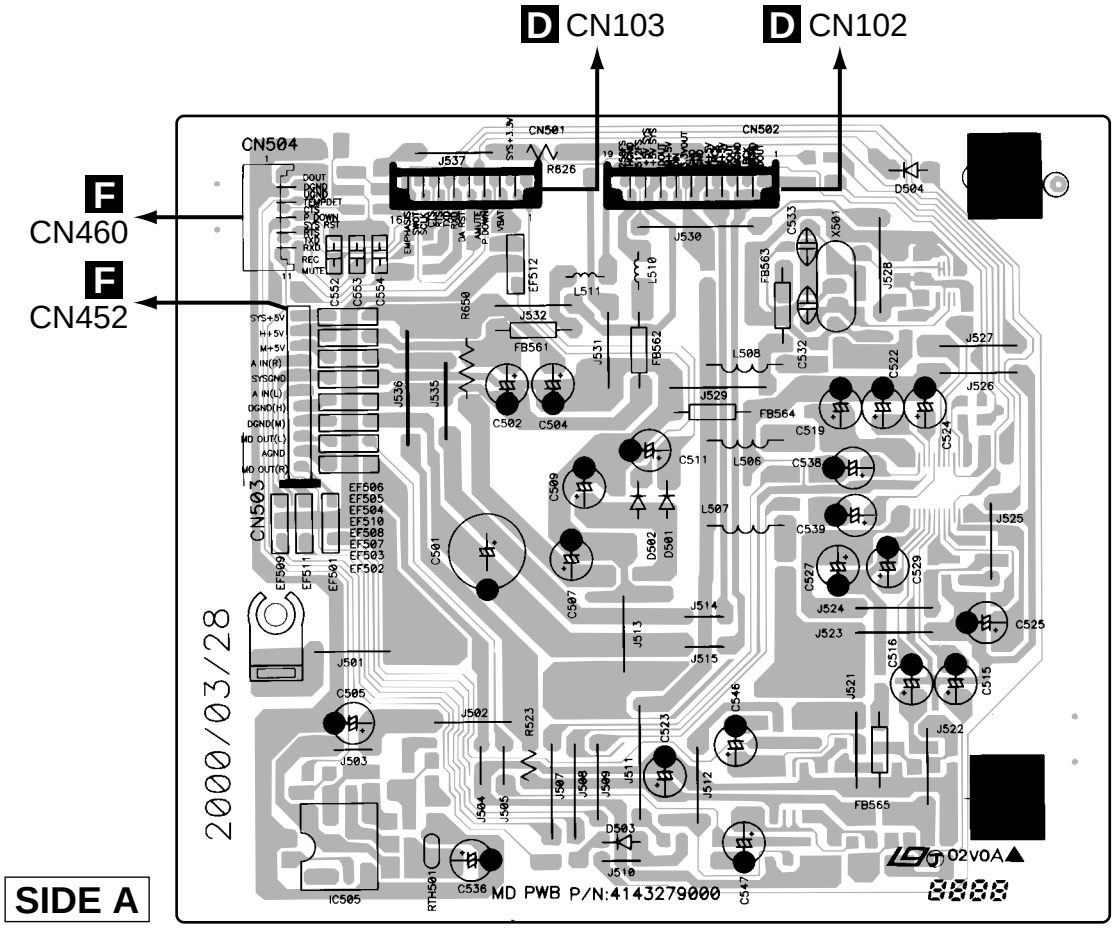
4.1 TUNER PWB ASSY

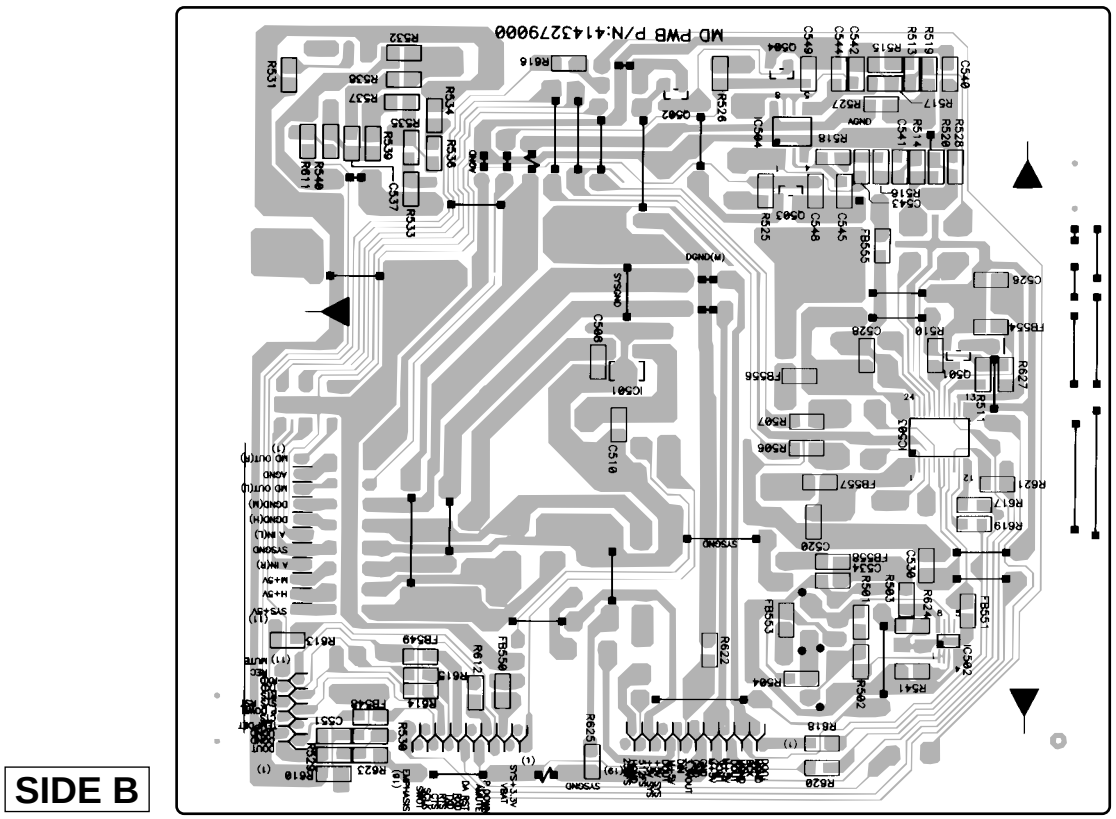
A TUNER PWB ASSY



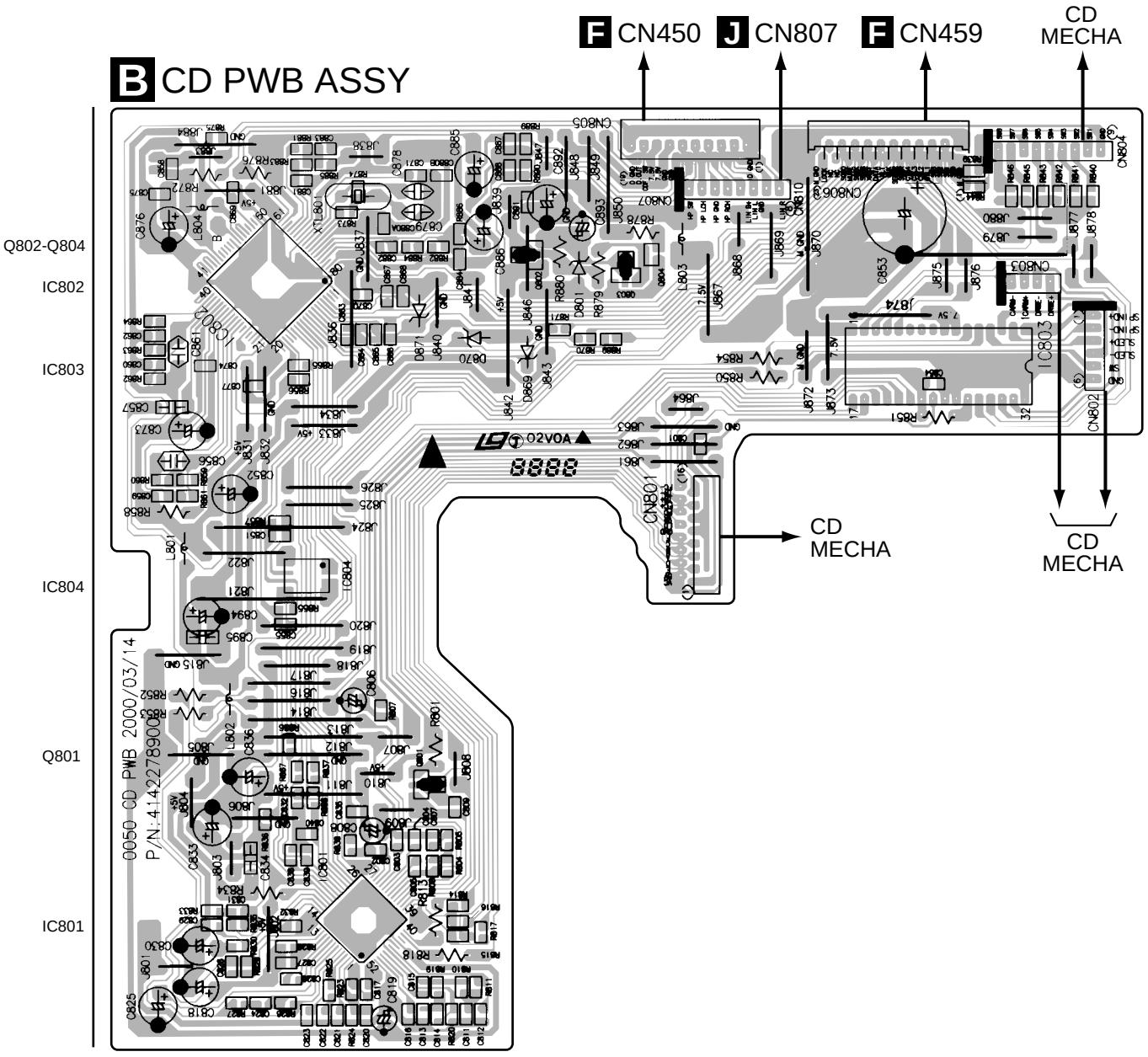
SIDE A

4.2 MD PWB ASSY



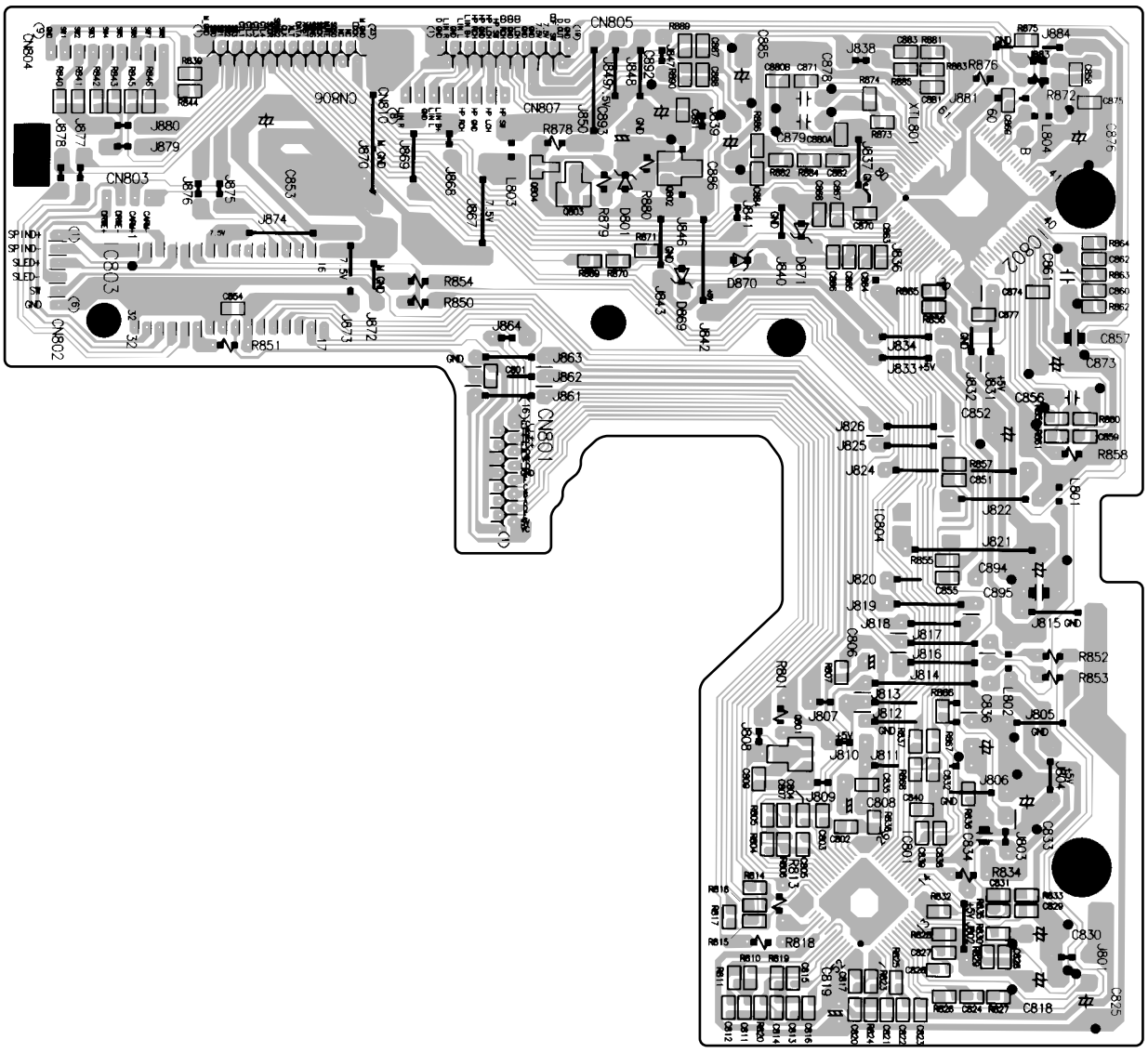


4.3 CD PWB ASSY



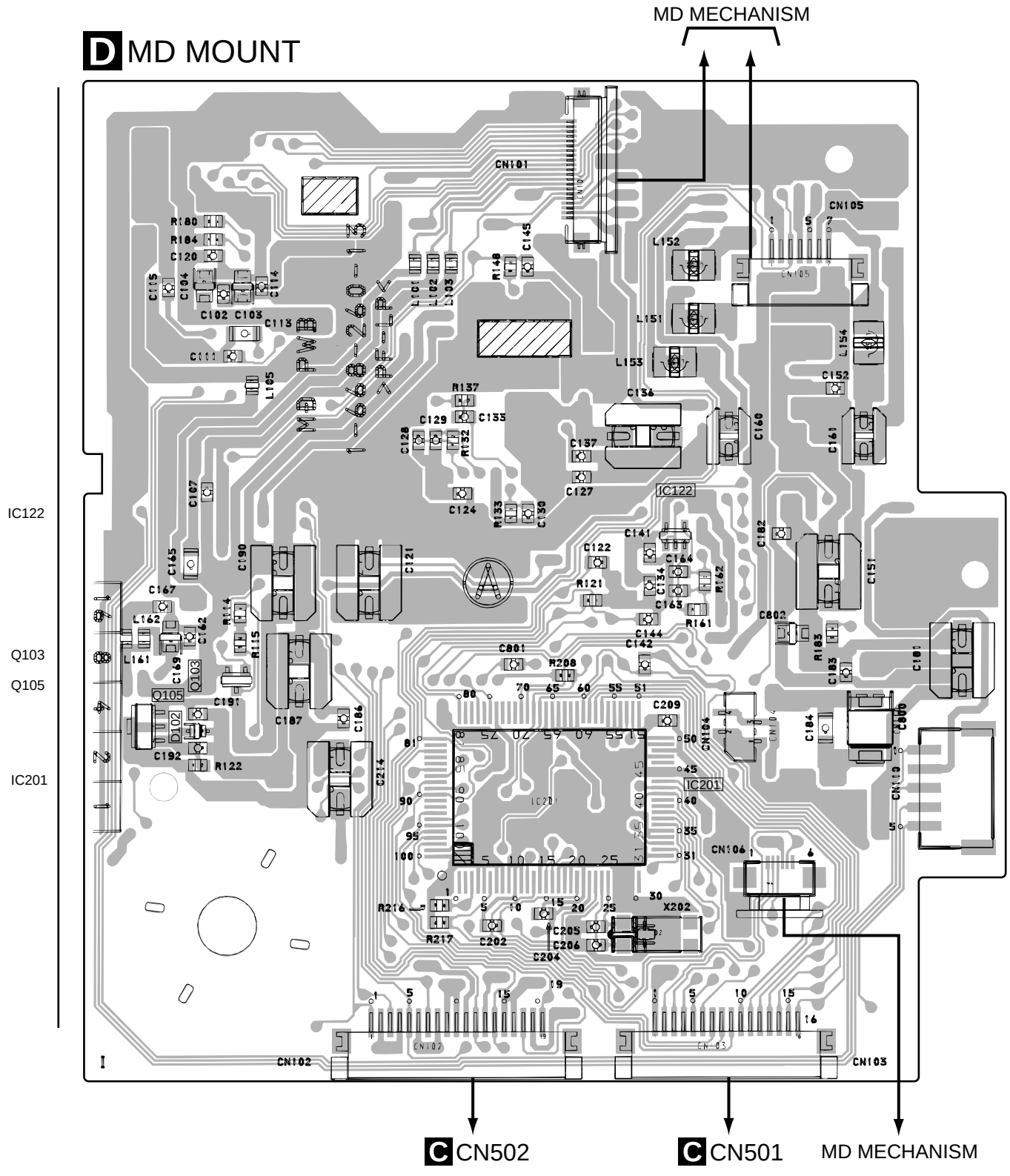
SIDE A

B CD PWB ASSY



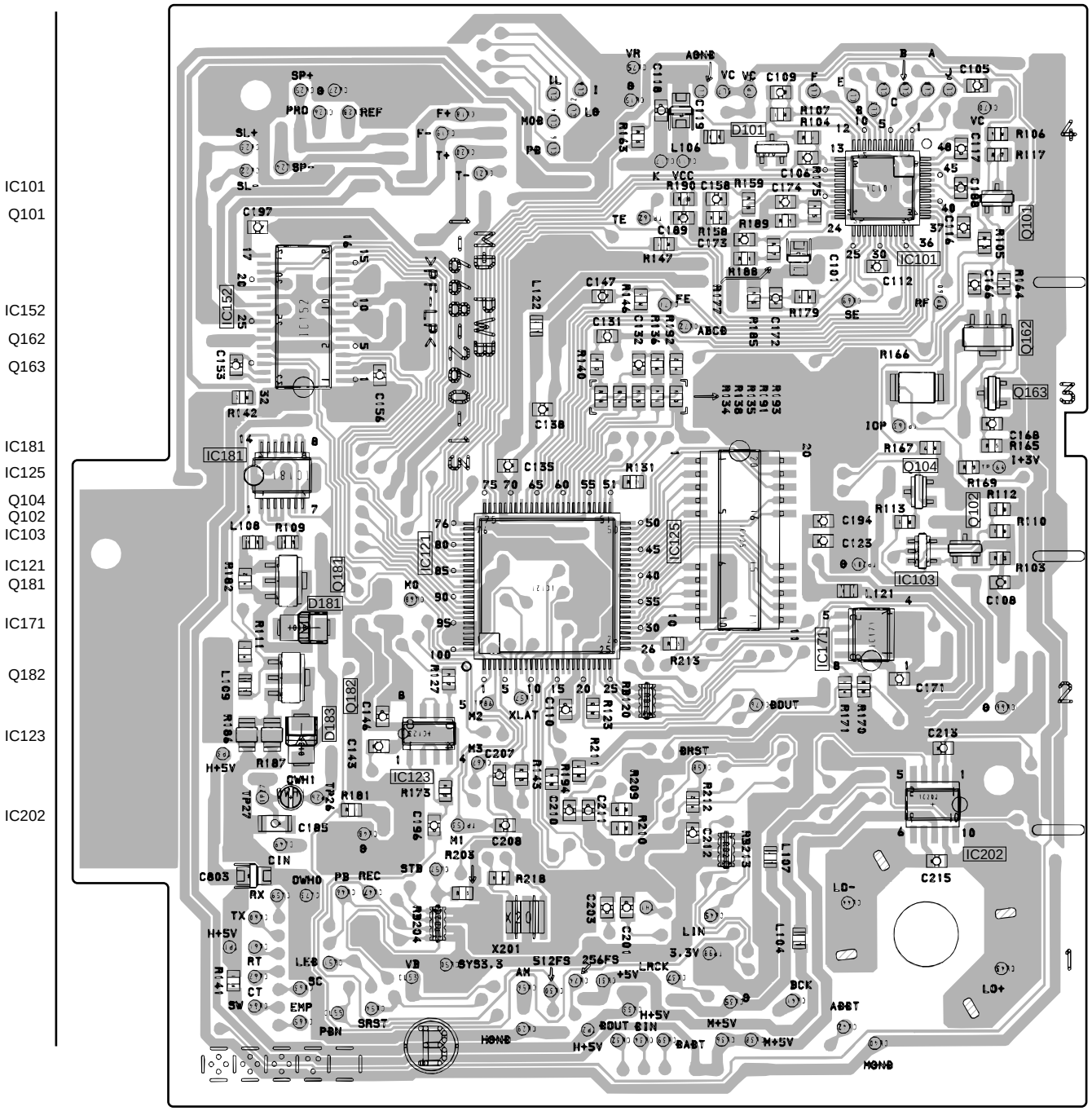
SIDE B

4.4 MD MOUNT



SIDE A

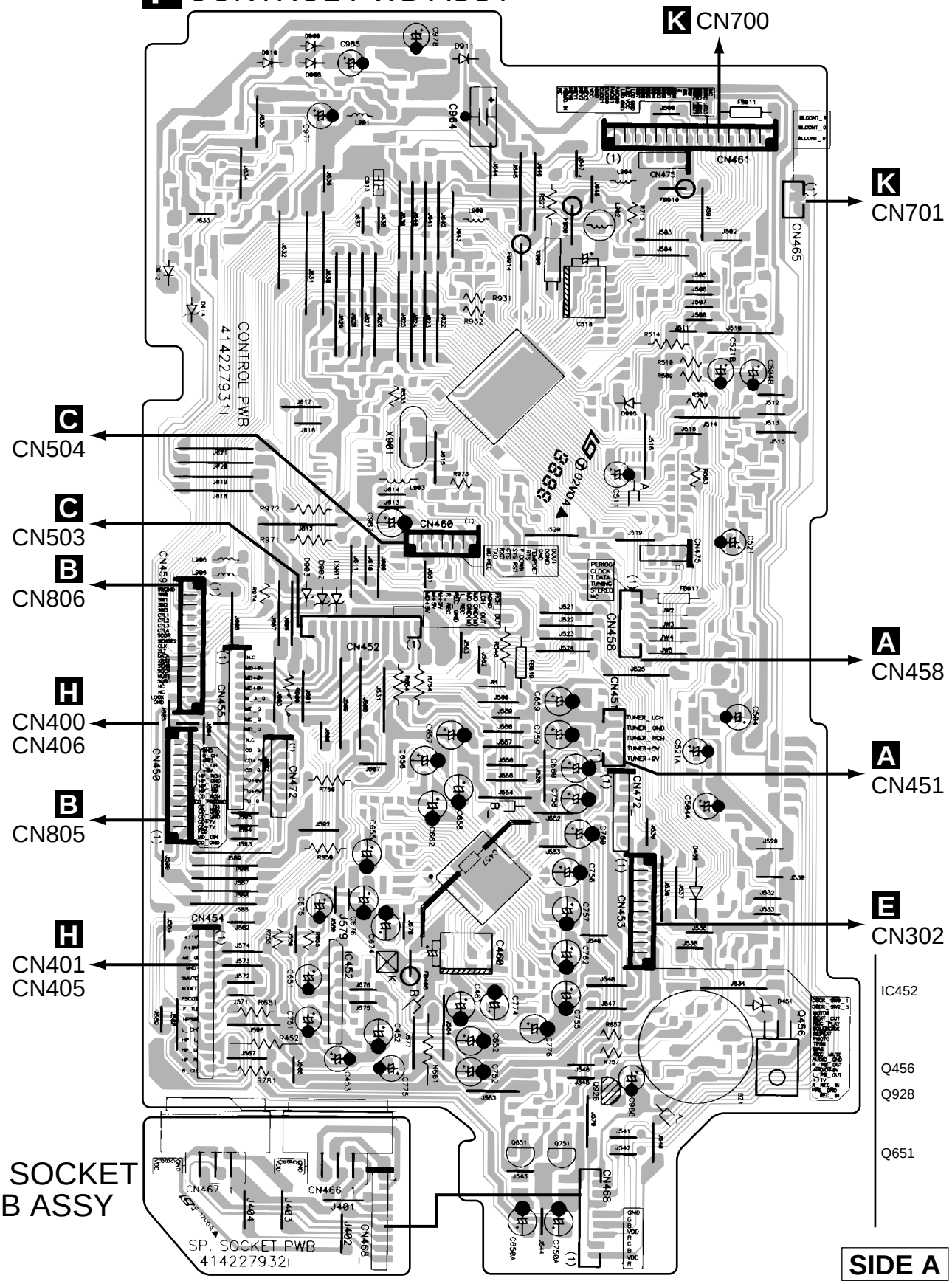
D MD MOUNT



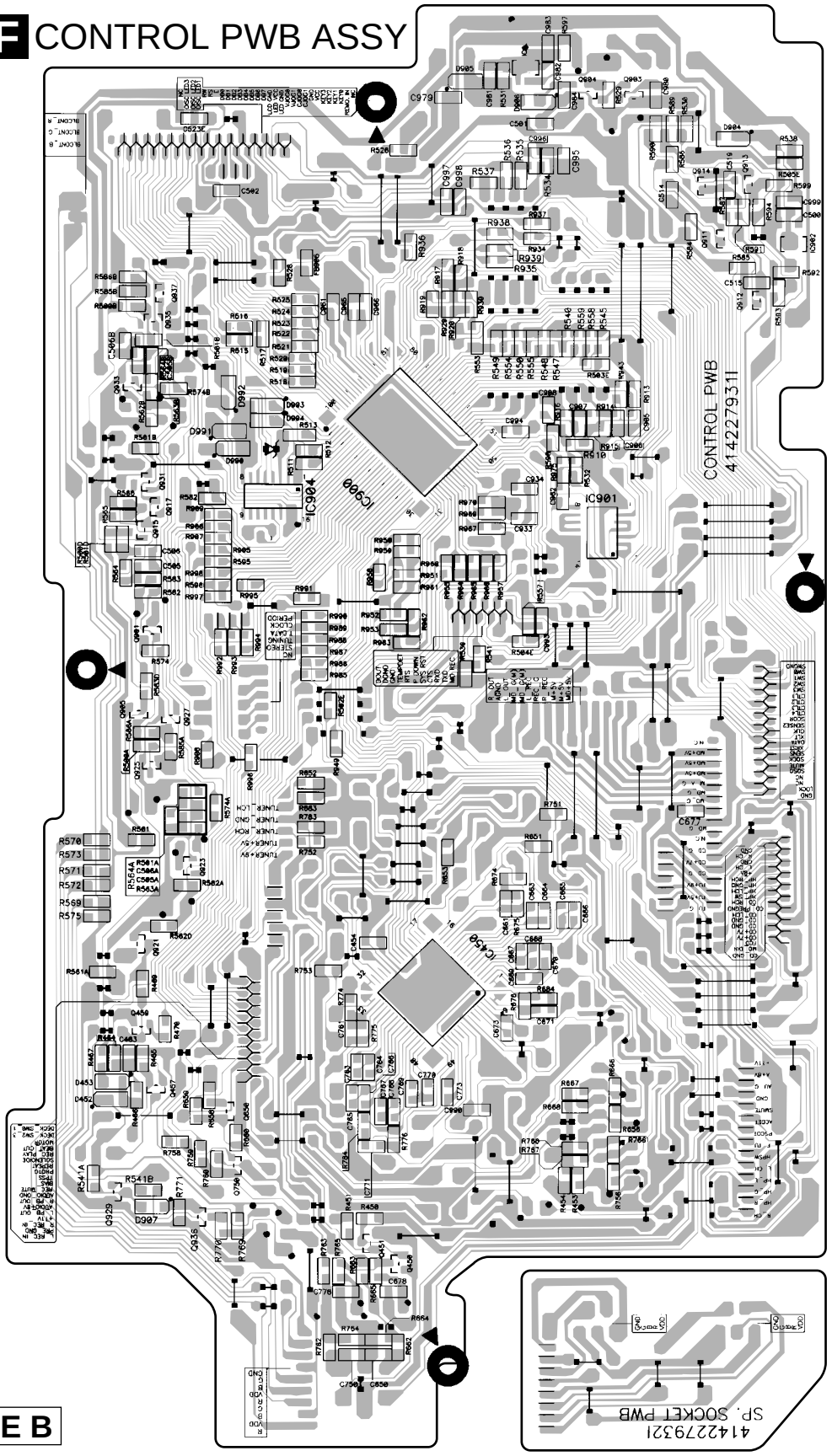
NOTE : GXX1155 is MD mechanism for service by which resistance (R123, R213, R142) is removed from KMK-260AAB.

SIDE B

4.5 CONTROL and SP. SOCKET PWB ASSYS



F CONTROL PWB ASSY



Q904 Q903

Q914 Q913

Q911

Q937 Q912

Q935

Q933

IC900

Q931

Q917

Q915 IC901

Q901

Q902 Q927

Q925

Q923

Q921

Q450 IC450

Q457 Q850

Q750

Q920 Q936

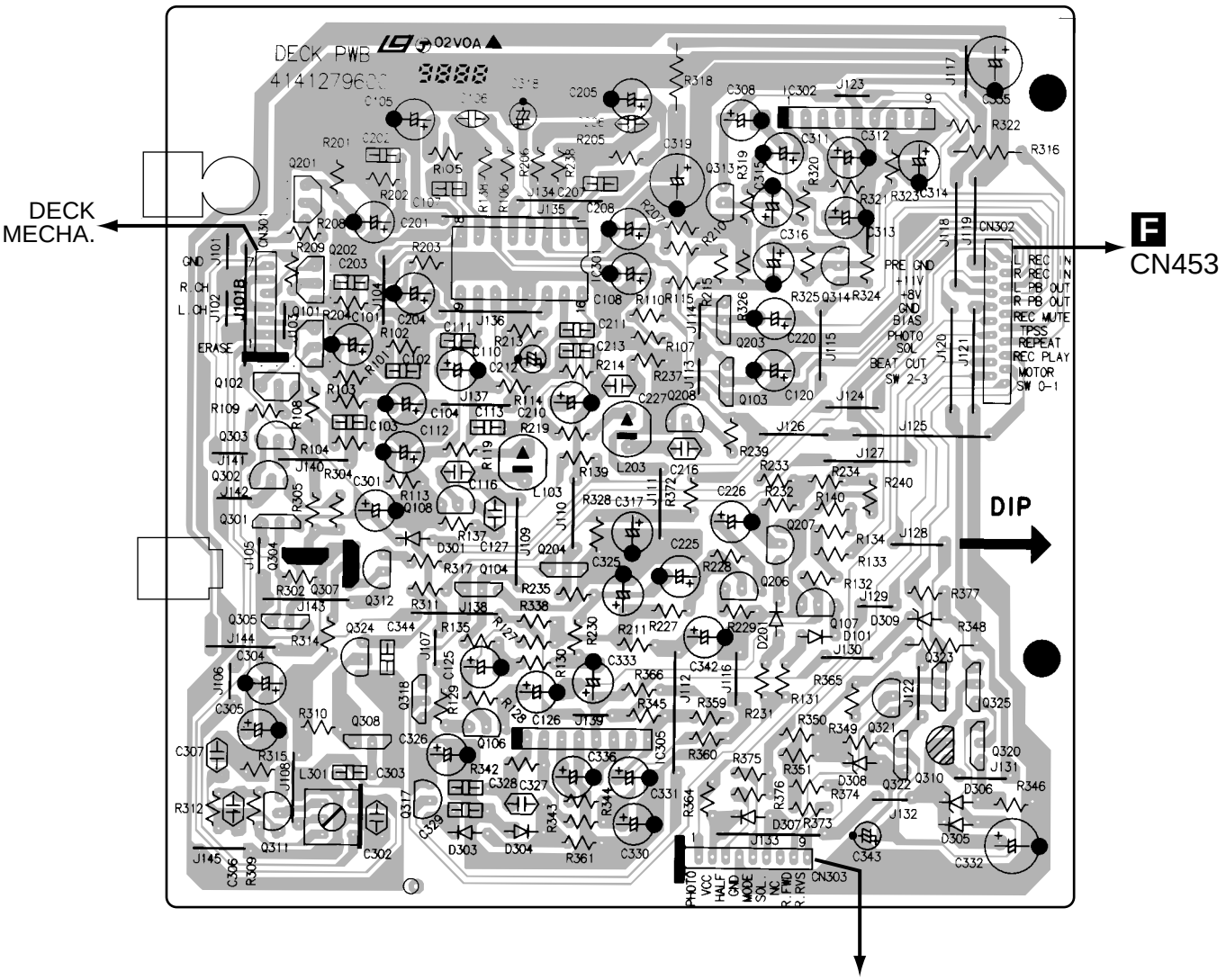
Q451 Q450

G SP. SOCKET PWB ASSY

SIDE B

4.6 DECK PWB ASSY

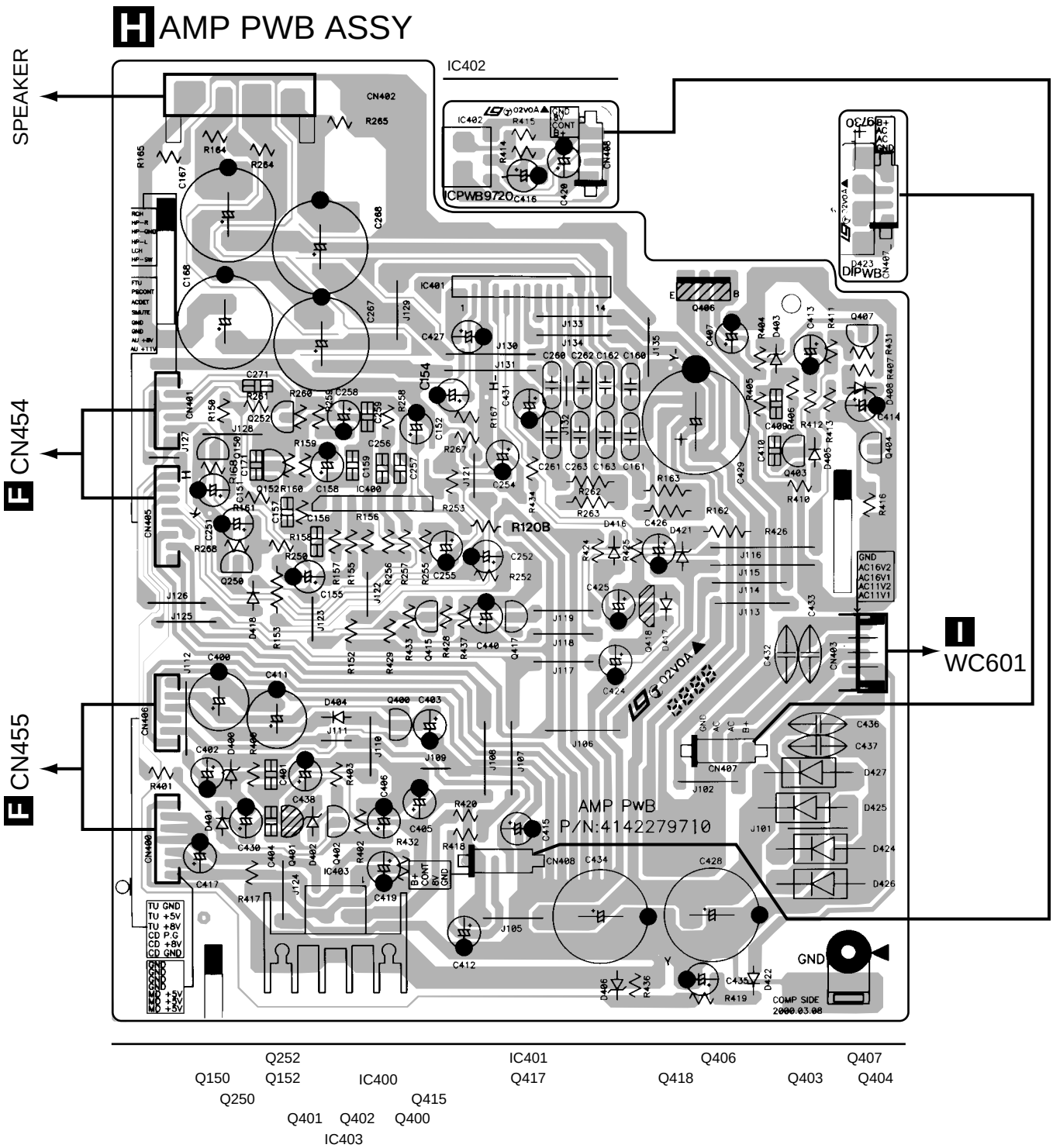
D DECK PWB ASSY



Q201 Q202 IC301 Q313 IC302
Q102 Q101 Q203 Q314
Q301-Q305 Q312 Q108 Q208 Q103
Q324 Q318 Q104 Q204 Q206 Q207
Q311 Q308 Q317 Q106 Q107 Q321 Q323 Q325
Q322 Q310 Q320

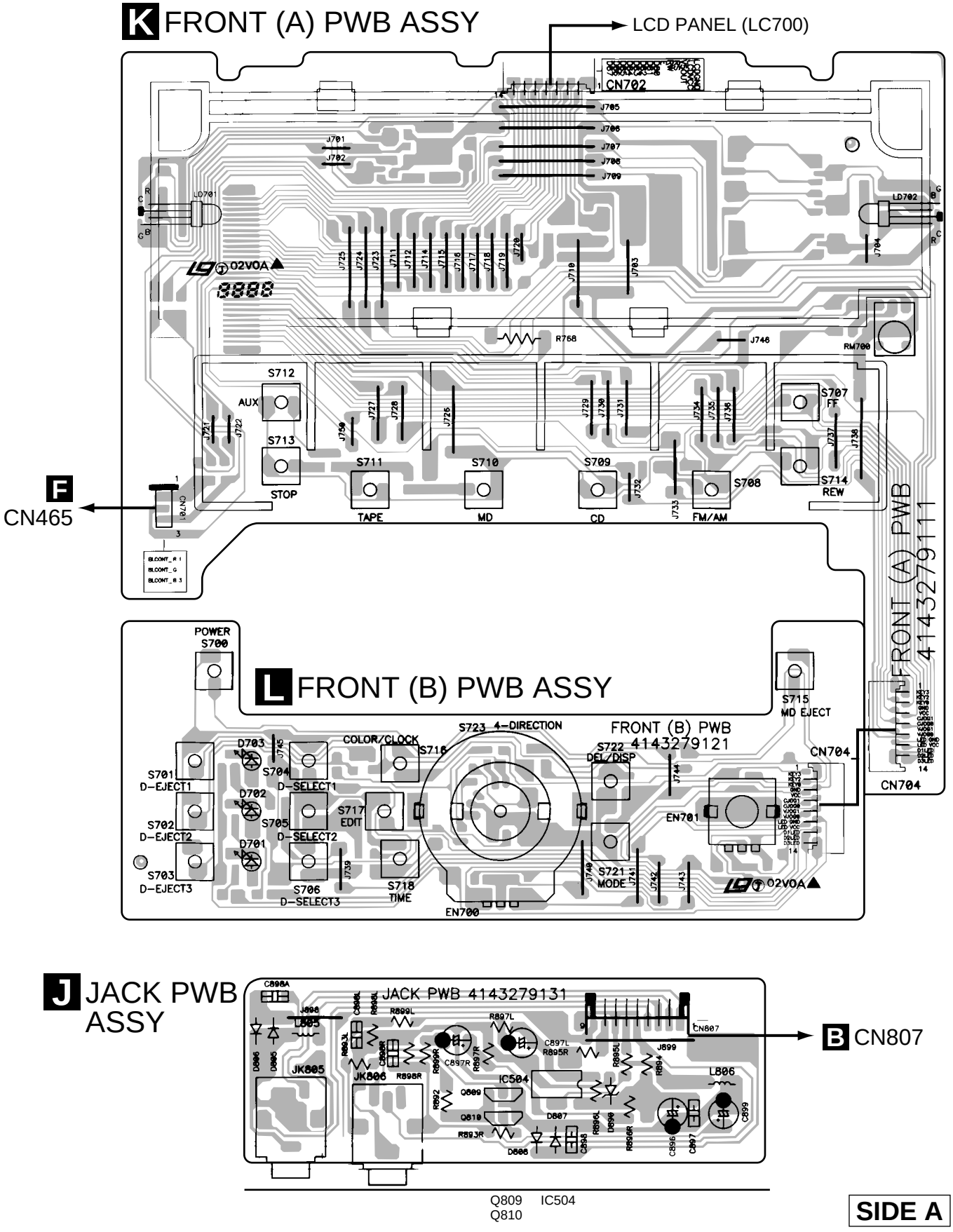
SIDE A

4.7 AMP PWB ASSY

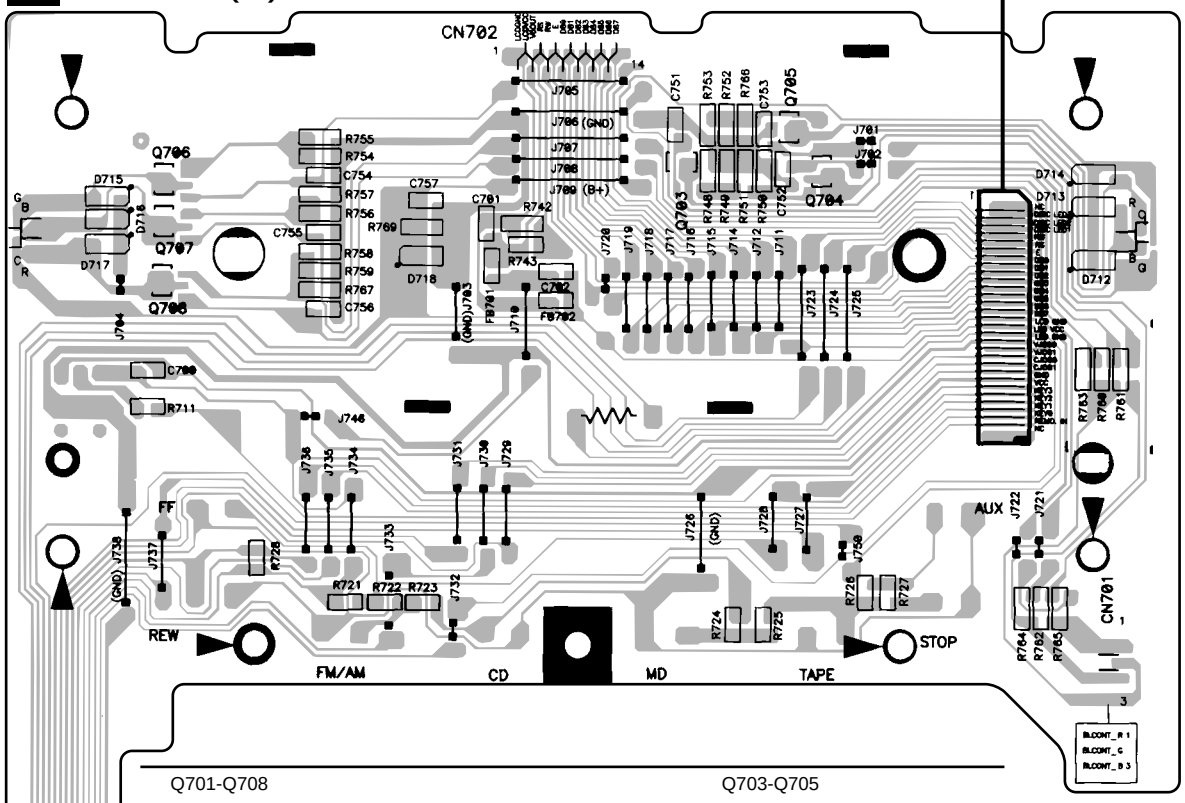


SIDE A

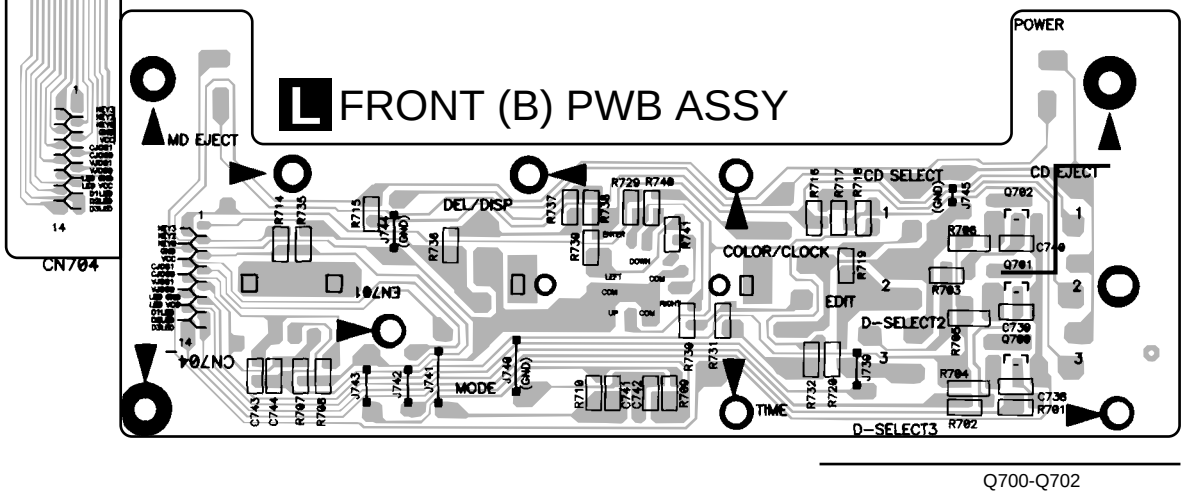
4.8 JACK, FRONT(A) and FRONT(B) PWB ASSYS



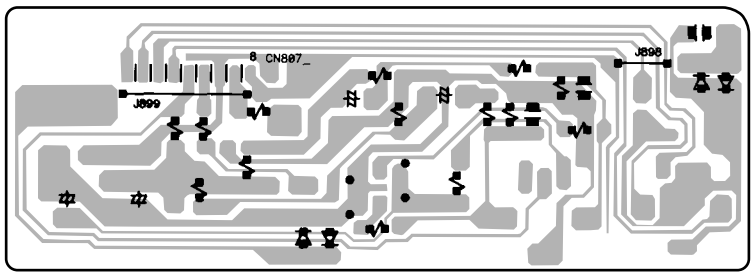
K FRONT (A) PWB ASSY



L FRONT (B) PWB ASSY



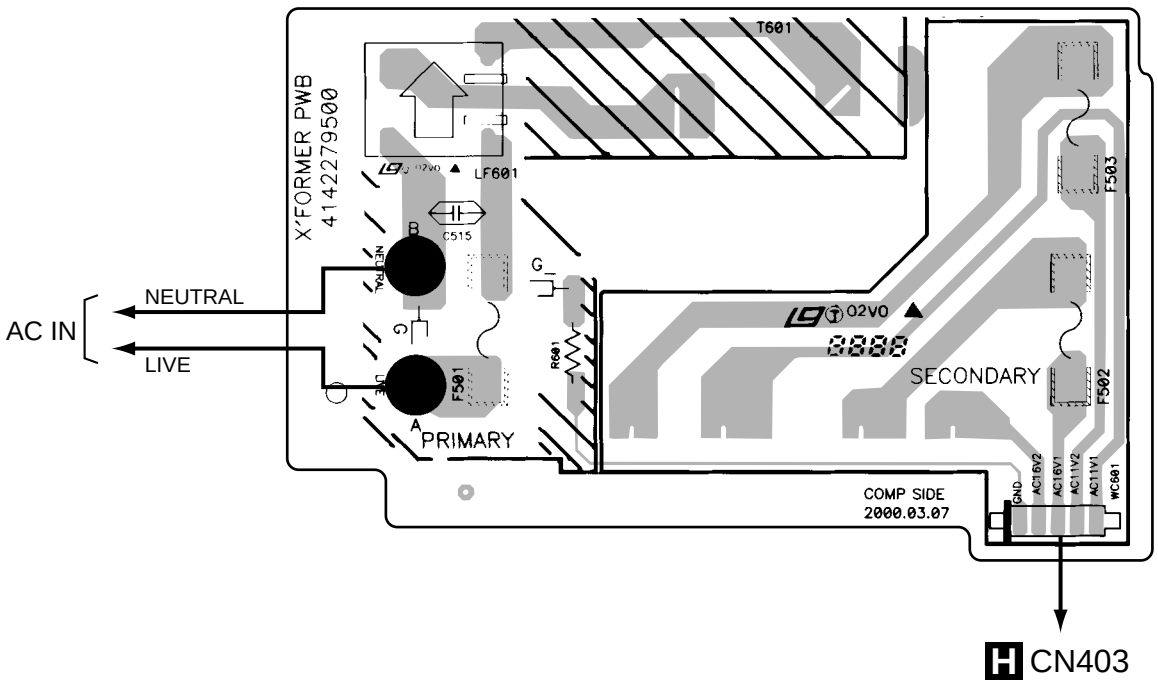
J JACK PWB ASSY



SIDE B

4.9 X'FORMER PWB ASSY

I X'FORMER PWB ASSY



H CN403

SIDE A

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560	→	*56 x 10^1*	→ *561*	····· *RD1/4PU 5 6 1 J*
47k	→	*47 x 10^3*	→ *473*	····· *RD1/4PU 4 7 3 J*
0.5	→	*R50*		····· *RN2H R 5 0 K*
1	→	*1R0*		····· *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k	→	*562 x 10^1*	→ *5621*	····· *RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
		TUNER PWB ASSY	C142279801
		CD PWB ASSY	C142278900
		MD PWB ASSY	C143279001
		DECK PWB ASSY	C141279600
		CONTROL PWB ASSY	C142279311
		└SP. SOCKET PWB ASSY	C142279320
		AMP PWB ASSY (LBXCN)	C142279711
		AMP PWB ASSY (NLWXCN/HK)	C142279710
NSP		├ IC PCB	
NSP		└ DI PCB	
		(Please order AMP UNIT for the necessity IC PCB and DI PCB ASSEMBLIES.)	
		X'FORMER PWB ASSY (LBXCN)	C142279500
		X'FORMER PWB ASSY (NLWXCN/HK)	C142279501
		FRONT (A) PWB ASSY	C143279110
		├ FRONT(B) PWB ASSY	C143279120
		└ JACK PWB ASSY	C143279130
NSP		MD MOUNT	A-4917-020-A
		├ PMS L-SW	1-668-261-11
		└ D-SW MOUNT BOARD	1-668-262-11

A TUNER PWB ASSY

SEMICONDUCTORS

	IC2 (TC9216P)	415309216P
	IC1 (TA2099N)	415302099N
	Q3 (DTA114YS)	41091114YS
	Q5,Q6	2SA733(PQ)
	Q9,Q10,Q12	2SC1740S(QRS)
	Q1	2SC1675(L)
	Q11	2SC1674(L)
	Q2 (2SK193TP)	41065193TP
	Q4	DTC114TS
	D2-D5	1SS133
	D6 (SVC348-S)	4120103480

COILS AND FILTERS

	CF1,CF3 CERAMIC FILTER	4160200003
	CF4 CERAMIC FILTER	4160500089
	L1 AM ANT COIL	4300103280
	L2 MW OSC COIL	4330102020
	L3 P. COIL 221 K	4325022193
	L7,L8 P. COIL 220K	4325022093

TRANSFORMER

	T1 AM IFT 7ZA-99009	4340101430

CAPACITORS

	C44,C45	CCCCH330J50
	C79	CCPUSL150J50
	C22	CCPUSL680J50
	C25	CEATR10M50
	C49	CEAT100M50
	C1,C14,C20,C42	CEAT101M10
	C26,C55	CEAT1R0M50
	C38	CEAT220M25
	C39	CEAT3R3M50
	C13,C31,C32, C56	CEAT4R7M50
	C27	CEATR47M50
	C46,C47,C48	CKPUYB101K50
	C5,C29,C30,C43,C53	CKPUYB102K50
	C12,C15,C18,C37,C51,C54,C74	CKPUYF103Z25
	C2,C3,C50,C71,C72,C75,C76	CKPUYF223Z25
	C21,C84	CKPUYF473Z50
	C77	CQMA471J50
	C40	CQMBA103J50
	C19,C28	CQMBA153J50
	C24	CQMBA683J50
	C78 (CCCH 200 J1HT)	5121200552

RESISTORS

	R72	RD1/4PM331J
	R6	RD1/4PU100J

OTHERS

	AT1 4P ANT. TERMINAL	4560004086
	CF5 C.DETECTOR,CDA10.7MC82	4160200299
	FE1 FM FRONT END,TFFJ2U573A	716J2U573A
	CN451 5P CON. ASSY 100mm	C48P051011
	CN458 6P CON. ASSY 100mm	C48P061011
	304 CONNECTOR PLATE SD	2029070050
	X1 X' TAL (7.2MHz)	41009720M8

Mark	No.	Description	Part No.

B CD PWB ASSY

SEMICONDUCTORS

	IC801 (CXA1992BR)	415C01992R
	IC802 (CXD2589Q)	415C02589Q
	IC803 (BA5936S)	4159059360
	IC804	NJM4558M
	Q801	2SB1132(QRS)
	Q802, Q803	2SD1664(PQR)
	Q804	2SC2412K(R)
	D801,D869,D870,D871	MTZJ5.6B

COIL

	L801,L802 (22µH)	4325022093
	L803 CHOKE 101"K"	4320101157
	L804 CORE	7081600087

CAPACITORS

	C861 MULTLAYER C.C.224 M1HT	5129224252
	C856 MULTLAYER C.C.474 M1HT	5129474252
	C828	CCSQSL100D50
	C838,C839,C840,C864	CCSQSL101J50
	C865,C866,C867,C868	CCSQSL101J50
	C807	CCSQSL150J50
	C881,C882	CCSQSL151J50
	C860	CCSQSL221J50
	C831	CCSQSL470J50
	C859	CCSQSL471J50
	C883,C884	CCSQSL681J50
	C878,C879	CCCCH270J50
	C830	CEAT3R3M50
	C852, C892	CEAT100M50
	C894	CEAT101M10
	C853	CEAT222M10
	C818,C833,C836,C873,C876	CEJQ470M50
	C825,C885,C886	CEAL4R7M50
	C893	CEAL101M10
	C806	CEAL220M16
	C808,C819	CEAL470M16
	C857	CKPUYF103Z25
	C834,C895	CKPUYF223Z25
	C803,C805,C812,C824,C862	CKSQYB103K50
	C809,C869,C887,C888	CKSQYB102K50
	C816,C817,C821,C822,C823,C854	CKSQYB104K25
	C827	CKSQYB183K50
	C820,C855	CKSQYB222K50
	C801,C815,C832,C835,C870,C871	CKSQYB223K50
	C874,C875,C877,C880A,C880B,C891	CKSQYB223K50
	C802,C804,C826	CKSQYB333K50
	C811	CKSQYB472K50
	C814	CKSQYB473K50
	C851	CKSQYB562K50
	C813	CKSQYB682K50
	C829	CKSQYB683K25

Mark	No.	Description	Part No.

RESISTORS

	R801,R834	RD1/4PU100J
	R850	RD1/4PU102J
	R853,R878,R879	RD1/4PU103J
	R813,R818	RD1/4PU104J
	R852	RD1/4PU153J
	R854	RD1/4PU223J
	R880	RD1/4PU331J
	R851,R858,R876	RD1/4PU473J
	R873	RD1/4PU511J
	Other Resistors	RS1/10S□□□J

OTHERS

	CN801 FFC 16P SIDE BASE	4491600330
	CN802 6P CON.ASSY	C488061914
	CN803 4P CON.ASSY	C488041910
	CN804 9P CON.ASSY	C488091910
	CN805 FFC 19P SIDE BASE	4491900310
	CN806 FFC 23P SIDE BASE	4492300310
	CN807 9P CON.ASSY	C488091951
	XTL801 CRYSTAL(16.9344MHz)	410091693M

C MD PWB ASSY

SEMICONDUCTORS

⚠	IC501 (S-81340HG-KJ-X)	415981340G
	IC503 (PCM3003E-T2)	PCM3003E
	IC504	BA4510F
	IC502	TC7WU04FU
	Q502	DTA114EK
	Q501	DTC114EK
	Q503, Q504	DTC114TK
	D501-D504	1SS133

COILS

	L510, L511 INDUCTOR	4328210186
	L506-L508	LAU100J

CAPACITORS

	C532, C533	5121300552
	C552, C553, C554	CCPUSL470J50
	C519	CEAT100M50
	C504, C507, C509, C511	CEAT101M10
	C501	CEAT102M10
	C515,C516,C538,C539	CEAT1R0M50
	C502	CEAT331M10
	C522,C524,C525,C527,C529,C546	CEAT4R7M50
	C547	CEAT4R7M50
	C523	CEAT470M10
	C530	CKSQYB103K50
	C508,C510,C520,C526,C528,C534	CKSQYF104Z50
	C544,C545	CKSQYB122K50
	C542,C543	CKSQYB153K50
	C548,C549	CKSQYB472K50
	C540,C541	CKSQYB562K50

Mark	No.	Description	Part No.
RESISTORS			
	R650		RD1/4PM100J
	R626		RD1/4PM222J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN501	FFC 16P TOP BASE	4491600311
	CN502	FFC 19P TOP BASE	4491900311
	CN503	11P CON. ASSY	C48P111811
	CN504	FFC 11P SIDE BASE	4491100310
⚠	EF501-EF512	EMIFIL,DSS306-55B101M100	7080055001
⚠	FB561-FB565	FERRITE BEAD	7089710001
⚠	FB548- FB551, FB553- FB558	CHIP BEAD	MF1310211D
	EARTH (WASHER)		2000001209
	X501	CRYSTAL 22.5792MHz	4100922579

E DECK PWB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC301	(TA8142AP)	4153081421
	IC305		BA15218N
	IC302		BA335
	Q310		2SA952(L)
	Q304,Q307	(DTA114YS)	41091114YS
	Q106,Q108,Q206,Q208,Q308,Q312		2SC945(PQ)
	Q313,Q314,Q324		2SC945(PQ)
	Q107,Q207,Q302,Q303, Q311,Q317		2SC2001(L)
	Q321		2SC2001(L)
	Q101,Q102,Q201,Q202		2SJ103(GR)
	Q103,Q104,Q203,Q204,Q301,Q305		DTC114TS
	Q318,Q320,Q322,Q323,Q325		DTC114TS
	D307	(MPC-06B)	4130MPC06B
	D101,D201,D301,D303- D305		1SS133
	D308,D309		MTZJ5.1B
	D306		MTZJ8.2B
COILS			
	L103, L203	INDUCTOR 9P562J-R	4329256211
	L301	BIAS OSC COIL	4330802220
CAPACITORS			
	C103,C107,C111,C203,C207,C211		CKPUYB101K50
	C312		CEAT100M50
	C105,C203,C331,C332		CEAT101M16
	C101,C104,C108,C110,C120,C201		CEAT1R0M50
	C204,C208,C210,C220,C308,C311		CEAT1R0M50
	C315,C316,C333,C336		CEAT1R0M50
	C112,C330		CEAT220M50
	C125,C225		CEAT2R2M50
	C304,C305,C317,C326,C342		CEAT470M16
	C319,C335		CEAT471M10
	C126,C226,C301		CEAT4R7M50
	C313		CEATR47M50
	C343		CEAL1R0M50
	C318		CEAL2R2M50
	C212		CEAL220M16
	C102,C113,C202,C213,C328,C329		CKPUYB102K50
	C344		CKPUYB104Z50
	C116,C127,C216,C227		CQMA183J50
	C106,C206		CQMA223J50
	C302		CQMA273J50
	C327		CQMA333J50
	C303		CQMA392J50
	C306,C307		CQMA682J50
RESISTORS			
	R316		RD1/4PM103J
	R105,R205(1%)		RN1/4PC22R0F
	R318		RD1/4PM271J
	R348		RD1/4PM681J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN301	WIRE CONNECTOR 7P	C48S071940
	CN302	CONNECTOR 19P	4491900311
	CN303	CONNECTOR 9P,SBRK	C48P090811

F CONTROL PWB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC900	(CXP740096-122Q)	415C74096A
	IC903	(S-81350HG-KD-T1)	41598135HG
⚠	IC902	(S-80727AN-DQ-T1)	415980727A
	IC452		BA15218N
	IC450		LC75394NED
	IC901		TC74HCT08AF
	IC904		TC74HC4094AF
⚠	Q456	(2SB772)	2SB772(RQP)
	Q459,Q650,Q750,Q905,Q915,Q921		SA301757KS
	Q925,Q929,Q931,Q935,Q936		SA301757KS
	Q904		2SA1037K(R)
	Q928		2SA952(L)
	Q451,Q457, Q903,Q911-Q914		2SC2412K(R)
	Q917,Q927,Q937		2SC2412K(R)
	Q651,Q751		2SC2878(A)
	Q450		DTA114TK
	D908-D910,D912	(MPC-06B)	4130MPG06B
	D911		1SS133
	D450		1N4148
	D452,D453,D904- D907	(LL4148)	SD14148G08
	D901-D903,D914		MTZJ5.1B
	D990-D994		UDZS5.6B
	D451,D995		MTZJ5.6B
COILS			
	L901, L903-L906, L909		LAU100J
	L902	INDUCTOR	LFA100J

Mark	No.	Description	Part No.
CAPACITORS			
	C964 (0.22µF/5.5V)		2000001236
	C501, C514, C515, C673, C773		CCSQSL101J50
	C905- C908, C995- C998		CCSQSL101J50
	C965, C966		CCSQCH270J50
	C933, C934		CCSQCH300J50
	C661, C761		CCSQCH330J50
	C670, C770		CCSQSL391J50
	C668, C768		CCSQSL681J50
	C662,C762		CEATR10M50
	C674,C774		CEAT100M50
	C452, C461, C776		CEAT101M10
	C652, C657-C660,C752, C757-C760		CEAT1R0M50
	C460		CEAT222M10
	C656, C756		CEAT470M16
	C755		CEAT4R7M50
	C518		CEAT102M6R3
	C511		CEAL100M35
	C453		CEAL101M10
	C651,C751		CEAL1R0M50
	C504,C504A,C504B		CEAL220M16
	C985		CEAL470M16
	C675,C775,C988		CEAL4R7M50
	C650A,C750A		CEJQ1R0M50
	C676		CEJQ101M10
	C977,C978		CEJQ221M6R3
	C987		CEJQ470M16
	C655		CEJQ4R7M50
	C913		CKPUYB101K50
	C457		CKPUYF104Z50
	C650,C677,C750,C982		CKSQYB102K50
	C669,C769		CKSQYB152K50
	C671,C678,C771,C778		CKSQYB222K50
	C665,C765		CKSQYF223K50
	C667,C767		CKSQYB272K50
	C666,C766		CKSQYB472K50
	C454,C523E,C962,C981		CKSQYF104Z25
	C990		CKSQYF103Z25
	C463,C500,C502,C505A,C505B		CKSQYF105Z16
	C505,C506,C506B,C519,C961		CKSQYF105Z16
	C979,C980,C983,C984,C993		CKSQYF105Z16
	C994,C999		CKSQYF105Z16
	C663,C763		CKSQYF224Z25
	C664,C764		CKSQYF683Z25
	C985		CEAL470M16
RESISTORS			
	R452,R661		RD1/4PM101J
	R514,R527,R971,R972		RD1/4PM102J
	R681,R781		RD1/4PM132J
	R650,R750		RD1/4PM133J
	R654,R754		RD1/4PM153J
	R546		RD1/4PM332J
	R508-R510,R533,R583,R930		RD1/4PU102J
	R931- R935,R974		RD1/4PU102J
	R657,R757		RD1/4PU103J
	R713,R973		RD1/4PU104J
	R655,R755		RD1/4PU222J
	R917		405041045E
	R553		405041025E
⚠	R900		RFA1/4PS100J
	R503F		RD1/4PU103J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN450,CN453 FFC 19P TOP BASE		4491900363
	CN451 PH 5P TOP BASE		4490501004
	CN452 PH 11P TOP BASE		4491101004
	CN454 14P CON. ASSY		C488141903
	CN455 15P CON. ASSY		C488151904
	CN458 PH 6P TOP BASE		4490601004
	CN459 FFC 23P TOP BASE		4492300363
	CN460 FFC 11P TOP BASE		4491100363
	CN461 FFC 30P TOP BASE		4493000363
	CN465 PH 3P TOP BASE		4490301004
	CN468 HEADER 9P		4490900316
	CN472 7P CON. ASSY		C48F070811
	CN475 4P CON. ASSY		C48F040811
	X900 CRYSTAL 32.768kHz		410093276B
	X901 CRYSTAL 16.00MHz		41009160M0
⚠	FB468,FB501,FB910,FB911		7089710001
⚠	FB914, FB917,FB919		7089710001
	FERRITE BEAD		
	BZ1 SPEAKER PIEZO CB20PA		4001000292
	K TERMINAL PIN "K"		2000000478
	L/WPT26 1007 BLK-60		5353000611
	L/WPT26 1007 WHT-140		5353091411

H AMP PWB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC401 (LA4663)		4152046630
⚠	IC402, IC403 (PQ20RX11)		415920RX11
	IC400		BA15218N
⚠	Q406 (2SA1389)		4100013890
⚠	Q400		2SC2001(L)
⚠	Q401		2SB772(RQP)
	Q402,Q403,Q404,Q407,Q417		2SC945(PQ)
	Q150,Q152,Q250,Q252		2SC2001
	Q418		DTA114TS
⚠	D423 (G5SBA2D)		4130G5SBA2
	D404,D422 (MPG-06B)		4130MPG06B
⚠	D424-D427 (1N5402-D0201A)		4120154020
	D401,D405,D408,D416-D418		1SS133
	D421		MTZJ4.7B
	D406		MTZJ5.1B
	D400,D402		MTZJ5.6B
	D403		MTZJ7.5B

Mark	No.	Description	Part No.
CAPACITORS			
⚠	C432,C433,C436,C437	(CKF103 Z2HS)	5104103441
	C157,C257		CCPUSL100J50
	C154,C254,C406,C413,C414		CEAT1R0M50
	C416,C419,C420,C425,C426		CEAT1R0M50
	C430,C438		CEAT1R0M50
	C405		CEAT101M16
	C400,C411		CEAT102M10
	C440		CEAT220M25
	C152,C158,C252,C258,C403,C424		CEAT221M10
	C412,C415		CEAT221M16
	C167,C168,C267,C268		CEAT222M25
	C151,C251,C402,C407,C417		CEAT470M16
	C427,C431, C435		CEAT470M16
	C428,C434		CEAT472M16
	C429		CEAT472M25
	C155,C255		CEAT4R7M50
	C160-C163, C260-C263 (MSC274J)		511H274550
	C156,C256,C410		CKPUYB101K50
	C159,C259		CKPUYB102K50
	C401,C404,C409		CKPUYB103Z25
	C171, C271		CKPUYF104Z50
	C170,C270		CQHA181J2A
	C432A	(LBXCN ONLY)	5091223513
RESISTORS			
	R162,R163,R262,R263		RD1/4PMF2R2J
	R120		RD1/4PM101J
	R153,R426		RD1/4PMF472J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	CN401, CN406	PH 6P TOP BASE	4490601004
	CN400 PH 7P TOP BASE		4490701004
	CN405 PH 8P TOP BASE		4490801004
	CN402 SPEAKER TERMINAL 4P		4560004085
	CN403 EH 5P SIDE BASE		4490501003
	CN407,CN408 WIRE HOLDER 4P		4490400268
	407,408 FTW(2.5)4 BLK 140-4		5410414400
	HEAT SINK "A"		2009070050
	HEAT SINK "B"		2010070050
	H.S. BRACKET		2A11A70050
	EARTH WASHER 4.2Qx8Q		2000001209
	DISC BUSHING		2000000767
	IC INSULATOR A		2048070050
	IC INSULATOR B		2049070050
	AWG-20 1007 BLK 120mm 4		53B4001211
	AWG-24 1007 BLK 160mm 4		5346001618
	AWG-24 1007 BLK 100mm 4		5346011011

I X' FORMER PWB ASSY

FILTER

Mark	No.	Description	Part No.
	LF601	AC LINE FILTER	70699200C1
CAPACITORS			
	C515	SPARK KILLER(4700pF/400V)	5106472P41
OTHERS			
	A	PIN TERMINAL	2000000843
	601	WIRE HOLDER	4490500268
	WC601	5P CON. ASSY 160mm	C520516904

K FRONT(A) PWB ASSY

SEMICONDUCTORS

	Q703-Q708	2SD1664(PQR)
	D712-D717	UDZS5.1B
	D718	UDZ11B
SWITCHES		
	S707-S714 TACT SWITCH	4400000156
CAPACITORS		
	C751-C757	CKSQYF103K50
	C700-C702	CKSQYF105Z50
RESISTORS		
	R748,R749,R750,R751,R754- R757	405043915E
	R752,R753,R758,R759,R766,R767	405043315E
	R768	RD1/4PM100J
	Other Resistors	RS1/10S□□□J
OTHERS		
⚠	FB701, FB702 CHIP BEAD	MF1310211D
	CN700 FFC 30P TOP BASE	4493000374
	CN704 FFC 14P SIDE BASE	4491400330
	CN702 FMZ 14P SIDE BASE	4491400365
	RM700 REMOTE SENSOR:SPS-444-N	7140500001
	LC700 LCD DISP. LMG172C2-MFPT	4110500274
	LCD HOLDER	2003070050
	LCD LENS	1004070050
	DIFFUSION SHEET	2005070050
	CN701 3P CON.ASSY 180mm	C48P031811
	REFLECTOR "L"	2024070050
	REFLECTOR "R"	2025070050
	LENS	AAK7794

L FRONT(B) PWB ASSY

SEMICONDUCTORS

	Q700-Q702	2SC2412K(R)
	D701- D703: LED 3Q LTL-1CHKE	412061CHK5
SWITCHES		
	S700-S706,S715-S718,S721,S722	44000000156
	S723 RKJXM1012	44000000233

Mark	No.	Description	Part No.
CAPACITORS			
	C741-C744		CKSQYB103K50
	C738-C740		CKSQYF105Z50
RESISTORS			
	R704,R705,R706		405043315E
		CHIP R.1/4W 331J	
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN704	FFC 14P SIDE BASE	4491400330
	EN700	VR ENCODER	5020100332
	EN701	ROTARY ENCODER	5020100333

J JACK PWB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC504		NJM4558DXP
	Q809,Q810		DTC114TS
	D805-D808		1SS133
	D890		MTZJ9.1B
RESISTORS			
	Other Resistors		RD1/4PU□□□J
FILTER			
⚠	L805,L806	BEAD CORE	7081600087
CAPACITORS			
	C897L,C897R,C899		CEJQ1R0M50
	C896		CEJQ220M16
	C898L,C898R		CKPUYB102K50
	C897		CKPUYF103Z25
	C898,C898A		CKPUYF473Z50
OTHERS			
	CN807	PH9 SIDE BASE	4490901005
	JK805,JK806	H/P JACK HSJ-0923	4500100495

G SP. SOCKET PWB ASSY

Mark	No.	Description	Part No.
OTHERS			
	CN466	5P SOCKET 1.5mm	4570901900
	CN468	SOCKET 9P	4490900317

D MD MOUNT (Reference Information)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC122		TC7S08F
	IC123		TC7WU04F
	IC101 (CXA2523AR)		8-752-080-95
	IC121 (CXD2652AR)		8-752-384-47
	IC202 (LB1638MTE-L)		8-759-823-87
	IC125 (MSM51V4400-70TSK)		8-759-498-44
	IC152 (BH6511FS-E2)		8-759-430-26
	IC171 (BR24C01AF-E2)		8-759-484-73
	IC181 (TC74ACT540FT(EL))		8-759-523-48
	IC201 (RU8X12MF-0023)		8-759-533-77
	IC103 (FMW1-T-148)		8-729-903-10
	IC192 (L88MS33T-TL)		8-759-426-95
	Q101,Q163		DTA144EK
	Q103,Q104		DTC114EK
	Q102		2SA1037K
	Q182 (2SK1764KYR)		8-729-017-65
	Q181 (2SJ278MYTR)		8-729-018-75
	Q162 (2SB798-T1DK)		AZQ7132
	D181,D183 (F1J6TP)		8-719-046-87
	D101	CHIP DIODE ARRAY	DAN202K
COILS			
	L101	FERRITE BEED INDUCTOR	1-414-233-21
	L	FERRITE BEED INDUCTOR	1-414-235-11
	L	CHIP CONDUCTOR(2012)	AZC7283
CAPACITORS			
	C142		CCSQCH101J50
	C106		CCSQCH102J50
	C205		CCSQCH150J50
	C105		CKSQYB103K50
	C117		CKSQYB104K25
	C131		CKSQYB153K50
	C116		CKSQYB223K50
	C115		CKSQYB224K16
	C189		CKSQYB333K25
	C112		CKSQYB472K50
	C132		CKSQYB474K16
	C158		CKSQYB682K50
	C111		CKSQYB683K25
	C107		CKSQYF104Z25
	C113		CKSYB105K16
	C		CKSYB152K50
	C	CHIP TANTALUM ELECT	1-104-851-11
	C184	CHIP ELECT 22mF	1-107-836-11
	C151	CHIP ELECT 100mF	1-126-206-11
RESISTORS			
	R169	SQUARE CHIP 1W	1-217-806-11
	R163	METAL FILM 1.0W	1-219-724-11
	R213	CHIP NETWORK 10KW	1-236-908-11
	R120	CHIP NETWORK 100W	1-233-576-11
	R204	NETWORK 100KW	1-233-810-21
	R166	SQA TYPE CHIP 2.2W	1-240-032-11
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN101	FFC/FPC CONNECTOR 21P	1-691-385-21
	CN106	FFC/FPC CONNECTOR 6P	1-766-336-21
	CN103	FFC/FPC CONNECTOR 16P	1-770-425-11
	CN110	CONNECTOR PIN 5P	1-774-731-21
	CN104	FFC/FPC CONNECTOR 4P	1-778-283-11
	CN102	FFC/FPC CONNECTOR 19P	1-778-460-11
	CN105	FFC/FPC CONNECTOR 7P	1-779-345-11

Mark	No.	Description	Part No.
	X202	SERAMIC RESONETOR (32.768kHz)	1-760-174-31
	X201	XTAL RESONETOR (12MHz)	1-760-872-11

L-SW MOUNT BOARD

OTHERS

	FFC/FPC CONNECTOR 6P	1-766-336-21
	PUSH SWITCH(1KEY)	1-771-092-21
	PUSH REVER SW(1KEY)	1-771-326-11

D-SW MOUNT BOARD

OTHERS

	2PIN PUSH SW(2KEY)	1-771-327-11
	FFC/FPC CONNECTOR 7P	1-779-345-11

6. ADJUSTMENT

6.1 CASSETTE DECK SECTION

● Adjustment points and test points are shown in Fig.2 and Fig.4 .

■ Adjustment

● The test tape is played. And, for the shape of waves of the test point (CN453 PB Lch⑬ and PB Rch⑮) to become, for part A to become the maximum, and to minimize part B, the adjustment screw for azimuth is adjusted.
Both FORWARD and REVERS are adjusted. Do the screw lock to two places after the adjustment ends.

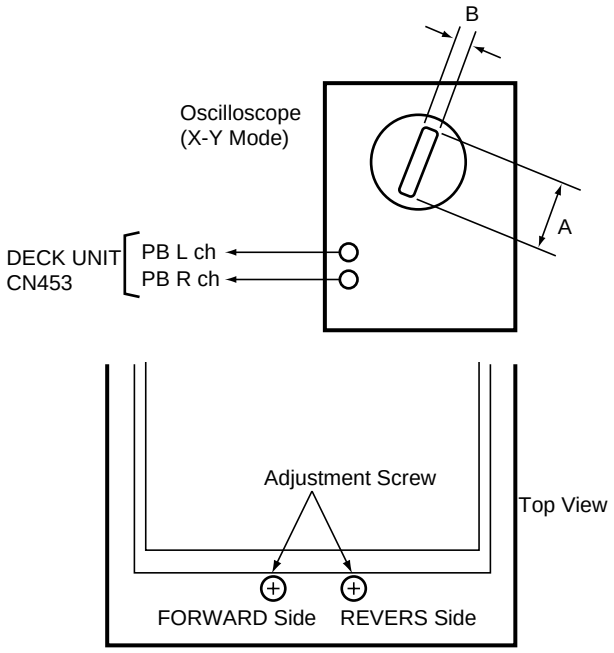


Fig. 1 Adjustment Points

■ Mechanical Adjustment

● Test tape: NCT-111 (3kHz, 30min).

● Tape Speed Adjustment

No.	Mode	Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	PLAY	NCT-111 (Playback: 3 kHz)	adjustment screw	JK805 Head Phone Jack	3000 Hz + 90Hz – 60Hz	

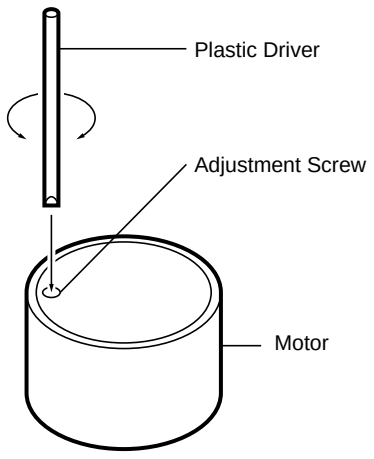


Fig. 2

Electrical Adjustment

Check the following before starting.

(1) Confirm that the tape speed adjustment has been completed.
(2) Clean the heads and demagnetize them using a head eraser.
(3) Set the measurement level to 0 dBV = 1 Vrms.
(4) Use the specified tape for adjustment. Use the labeled (A) side of the test tape.
NCT-132X : For playback check
(5) Provide yourself with the following measuring devides:
- AC millivoltmeter
- Low-frequency oscillator
- Attenuator
- Oscilloscope

(6) Adjust both right and left channels unless otherwise specified.
(7) Warm up the unit for several minutes before adjustment.
In particular, be sure to warm up the unit in the REC/PLAY mode for 3 to 5 minutes before starting recording/playback frequency characteristics adjustment.
(8) Always follow the indicated adjustment order.
Otherwise, a complete adjustment may not be achieved.

Playback Adjustment

(1) Head Azimuth Adjustment

* When the tape is played with both of side panel L and R removed (state that reception front is floating from ground). when adjusting , the noise might be superimposed.
In this case, the front chassis must short circuit to the CD mechanism cover in the lead wire.

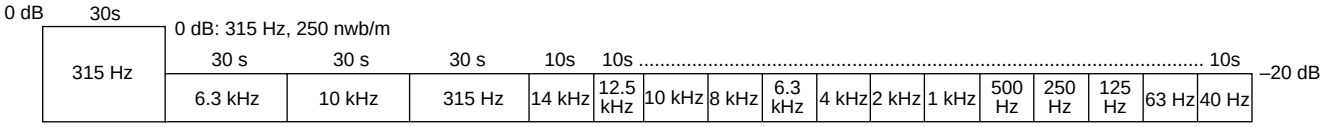


Fig. 3 NCT-132X Test Tape

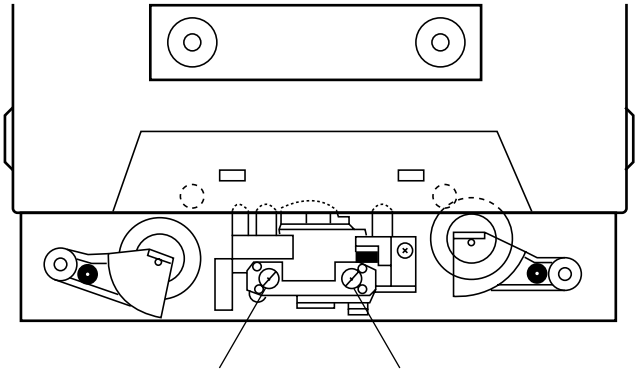


Fig. 4 Head Azimuth Adjustment

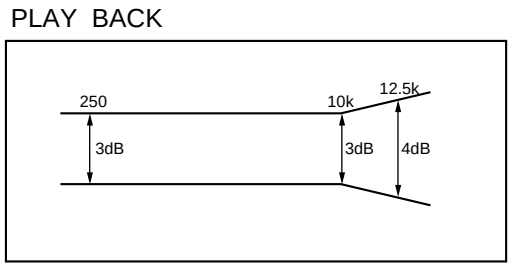


Fig. 5 Frequency Characteristics

Playback Adjustment

(1) Head Azimuth Adjustment

- Do not switch between forward and reverse operation with the screwdriver inserted.

Step	Mode	Input Signal/ Test Tape	Adjusting Points	Measurement Points	Adjustment Value	Remarks
1	PLAY	NCT-132X test tape (Playback: 10kHz, -20dB)	Head azimuth adjustment screw (Fig. 4)	CN453 PB L ch PB R ch	Max. playback signal level	After adjustment, apply silicon bond to the head azimuth adjustment screw.

6.2 TUNER SECTION

6.2.1 AM TUNER AECTION

■ AM Tuner Section

• Set the mode selector to AM BAND.
• Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Sensitivity	999 (∗1)	65±7	999kHz (∗1)	T 1	Adjust so that the DC voltage between the IC 01 - pin ⑦ and GND becomes at maximum level.

Note (∗1) : For the area using 10kHz step, frequency should be 1000kHz.

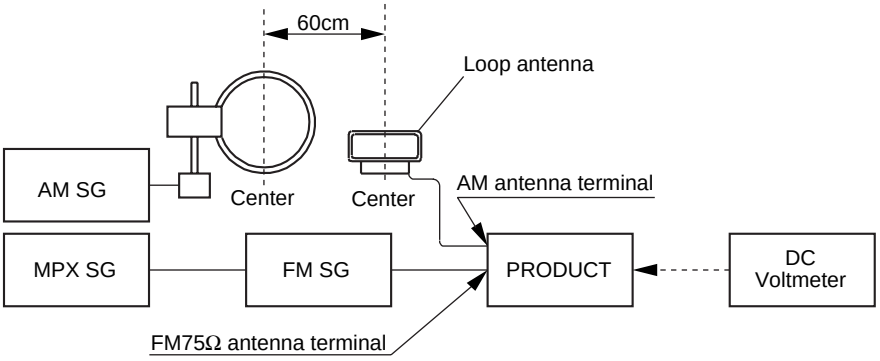


Fig.1 AM and FM Adjustment Wiring Diagram

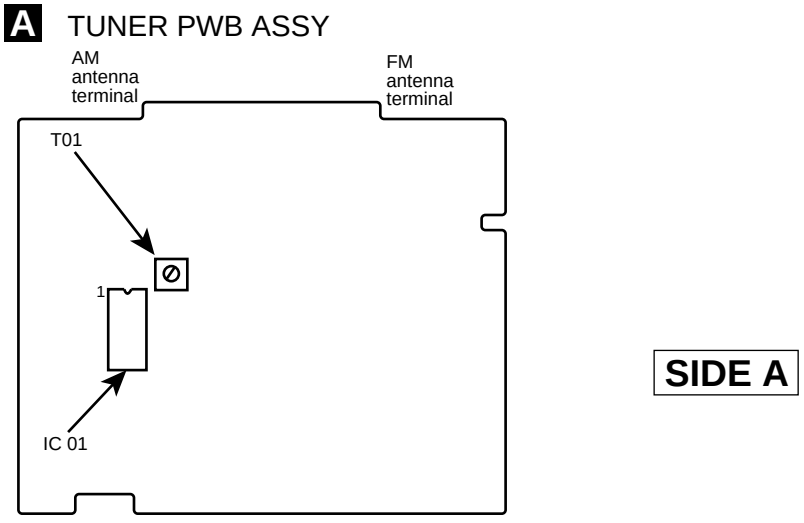


Fig.2 Adjustment Point

6.3 MD SECTION

Because material was not able to be acquired when the service manual is made, the adjustment of MD is not published.

6.4 CD SECTION

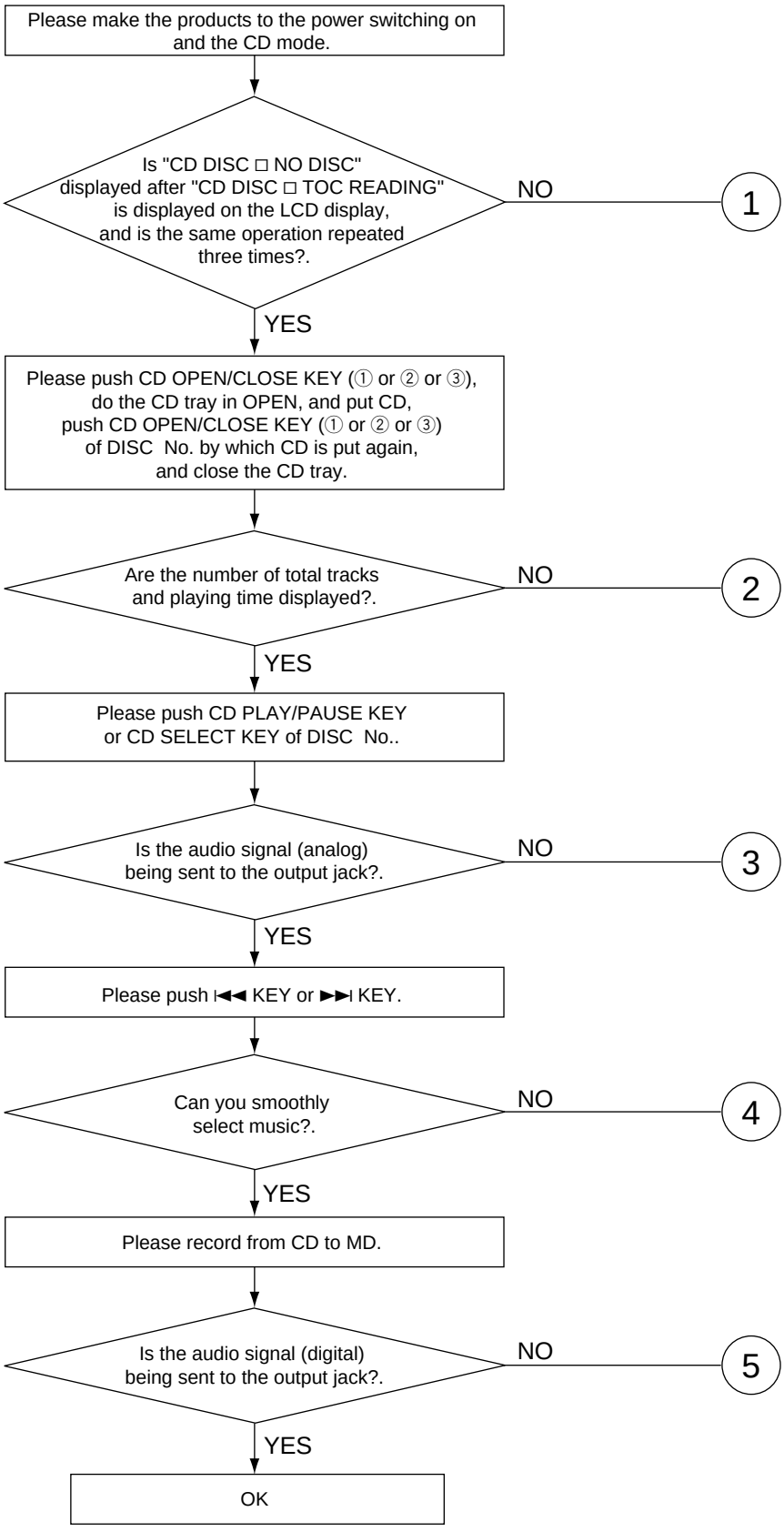
NOTE: There is no information to be shown in this CD adjustment.
The adjustment of the part CD is a self adjustment.
The adjustment when picking up is exchanged is unnecessary.
Please reproduce usual CD and do the reproduction confirmation after exchanging picking up.

7. GENERAL INFORMATION

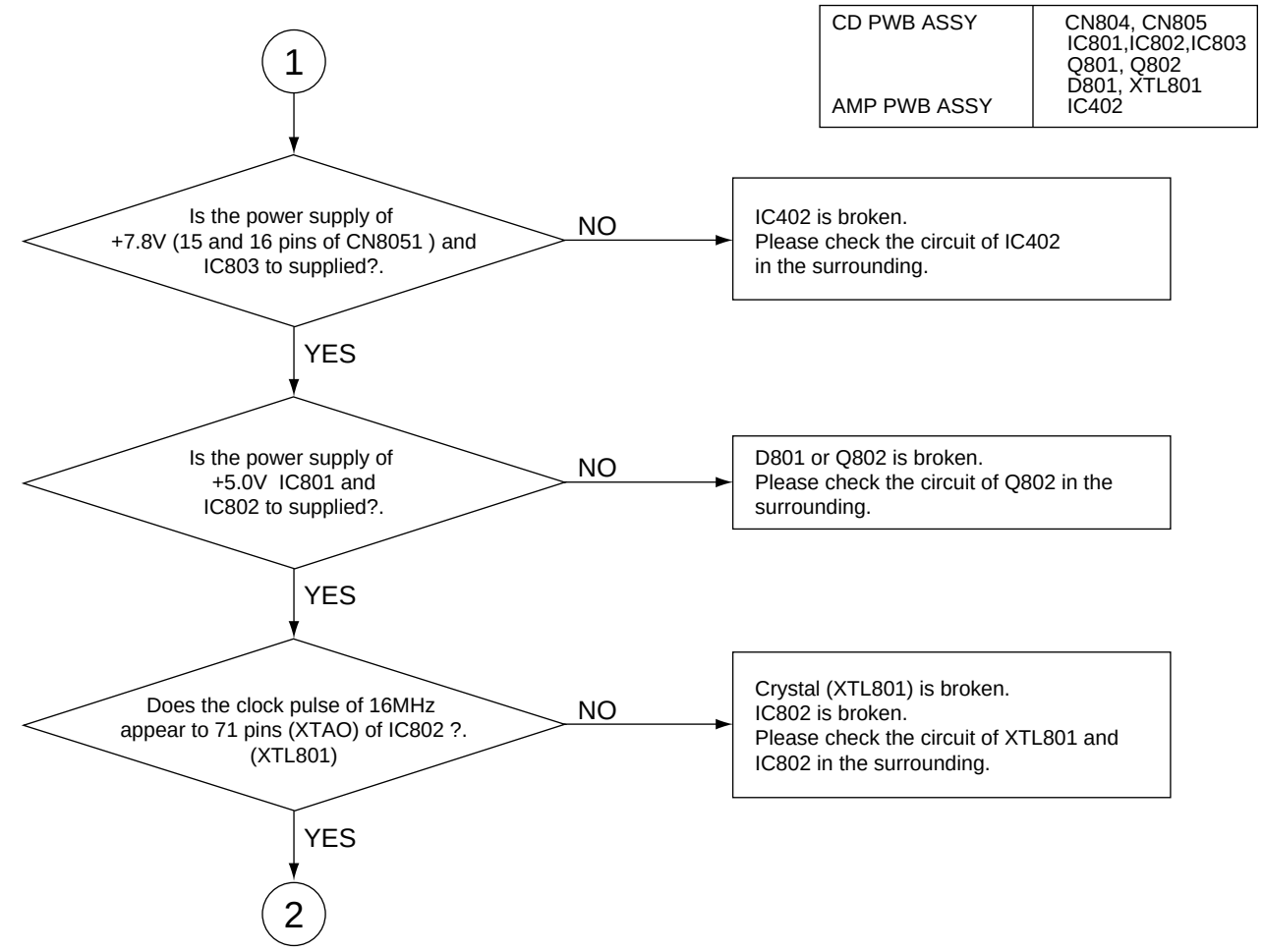
7.1 DIAGNOSIS

7.1.1 TROUBLESHOOTING

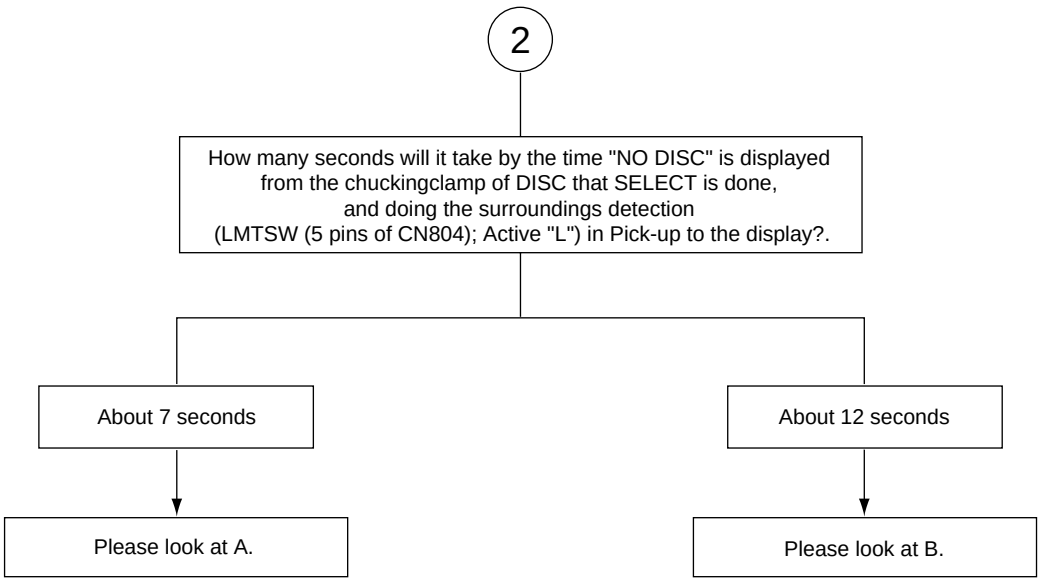
CD troubleshooting


Please make the products to the power switching on and the CD mode.
Is "CD DISC □ NO DISC" displayed after "CD DISC □ TOC READING" is displayed on the LCD display, and is the same operation repeated three times?.
NO
1
YES
Please push CD OPEN/CLOSE KEY (① or ② or ③), do the CD tray in OPEN, and put CD, push CD OPEN/CLOSE KEY (① or ② or ③) of DISC No. by which CD is put again, and close the CD tray.
Are the number of total tracks and playing time displayed?.
NO
2
YES
Please push CD PLAY/PAUSE KEY or CD SELECT KEY of DISC No..
Is the audio signal (analog) being sent to the output jack?.
NO
3
YES
Please push I◄◄ KEY or ►►I KEY.
Can you smoothly select music?.
NO
4
YES
Please record from CD to MD.
Is the audio signal (digital) being sent to the output jack?.
NO
5
YES
OK

1. "CD DISC □ NO DISC" is displayed after "CD DISC □ TOC READING" is displayed on the LCD display and when the same operation do not repeat three times.


CD PWB ASSY
CN804, CN805
IC801,IC802,IC803
Q801, Q802
D801, XTL801
AMP PWB ASSY
IC402
1
Is the power supply of +7.8V (15 and 16 pins of CN8051) and IC803 to supplied?.
NO
IC402 is broken.
Please check the circuit of IC402 in the surrounding.
YES
Is the power supply of +5.0V IC801 and IC802 to supplied?.
NO
D801 or Q802 is broken.
Please check the circuit of Q802 in the surrounding.
YES
Does the clock pulse of 16MHz appear to 71 pins (XTAO) of IC802 ?. (XTL801)
NO
Crystal (XTL801) is broken.
IC802 is broken.
Please check the circuit of XTL801 and IC802 in the surrounding.
YES
2

2. When neither the number of total tracks nor the playing time are displayed.


2
How many seconds will it take by the time "NO DISC" is displayed from the chuckingclamp of DISC that SELECT is done, and doing the surroundings detection (LMTSW (5 pins of CN804); Active "L") in Pick-up to the display?.
About 7 seconds
About 12 seconds
Please look at A.
Please look at B.

2-A

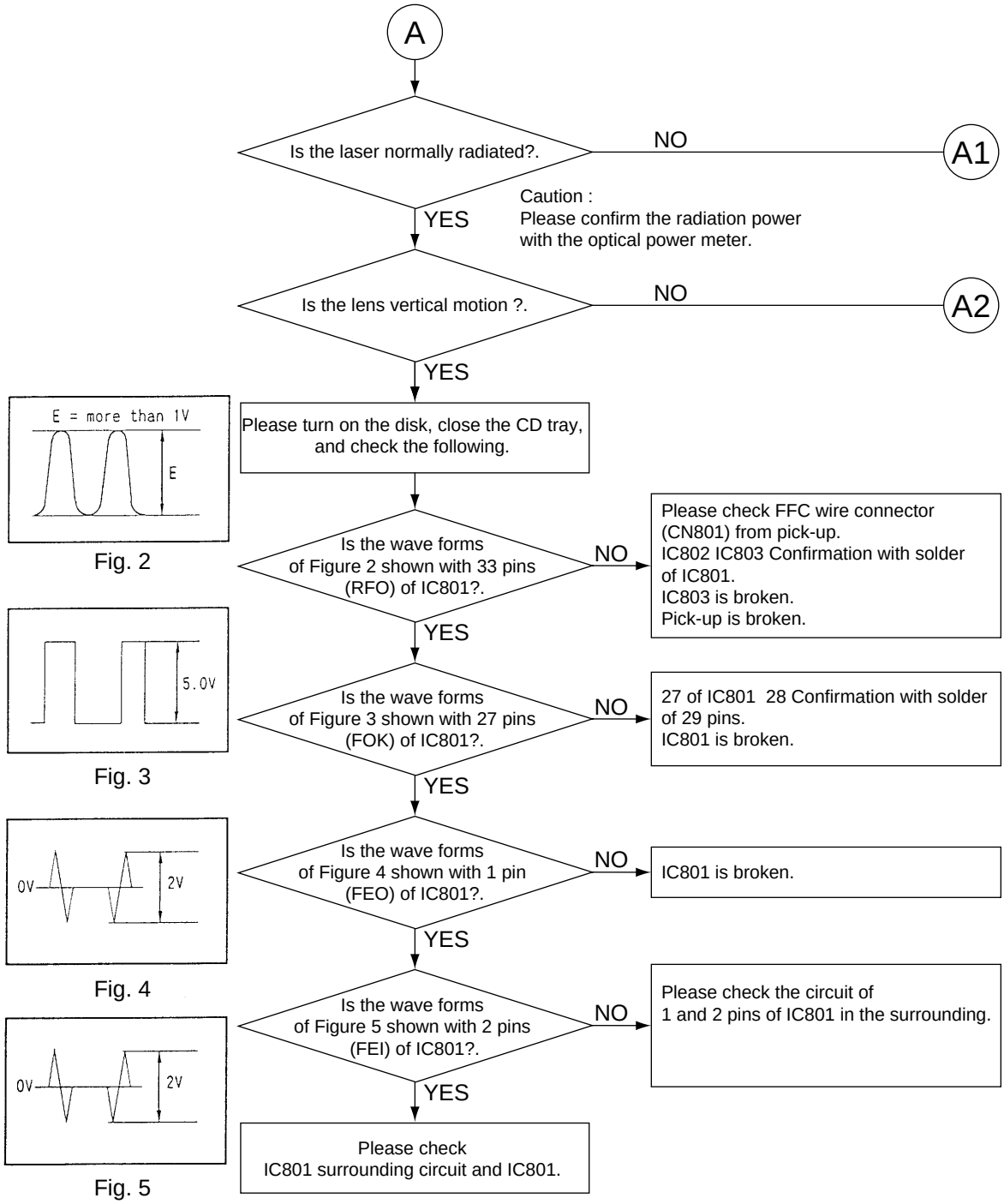


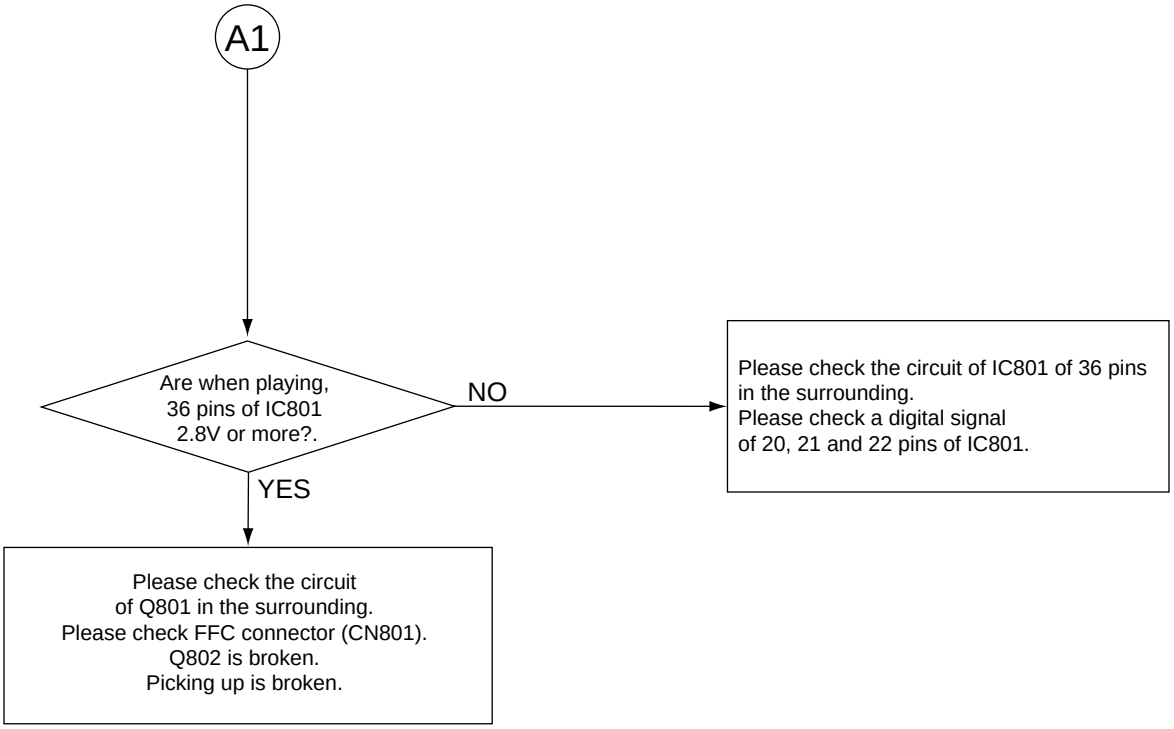
Fig. 2

Fig. 3

Fig. 4

Fig. 5

2-A1. (The laser does not radiate.)



2-A2. (Is the lens vertical motion.)

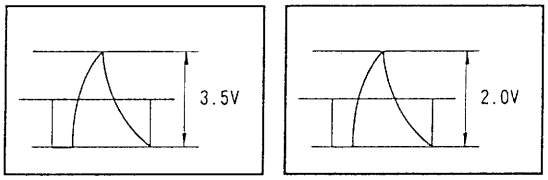
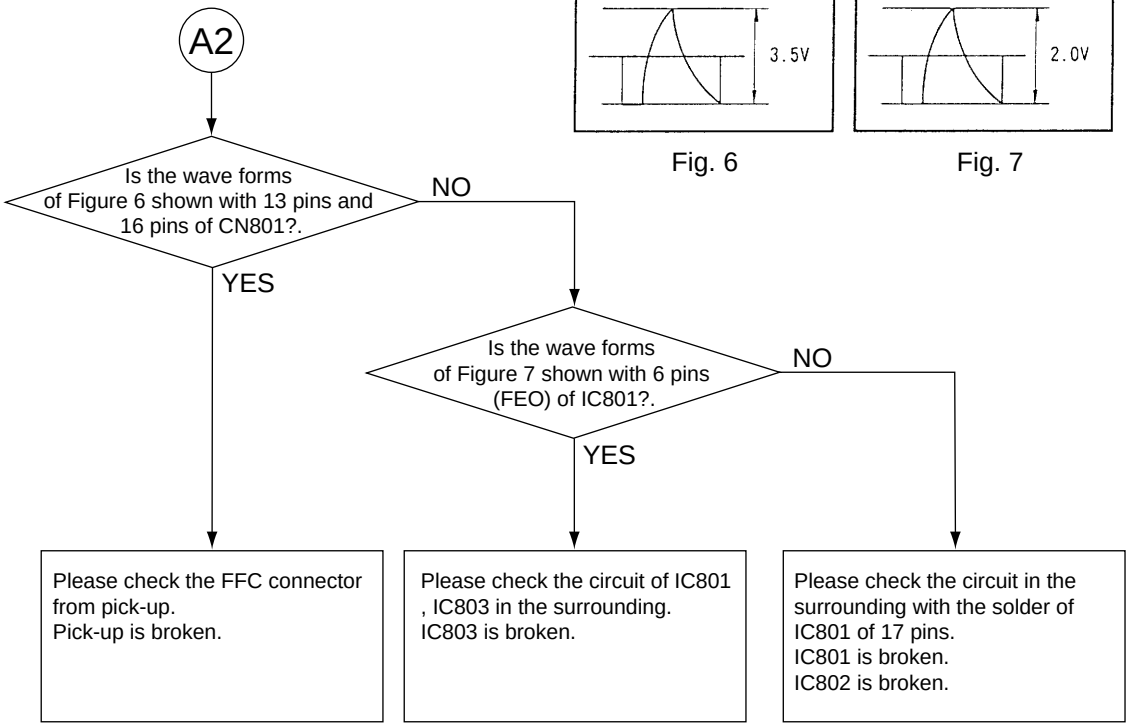
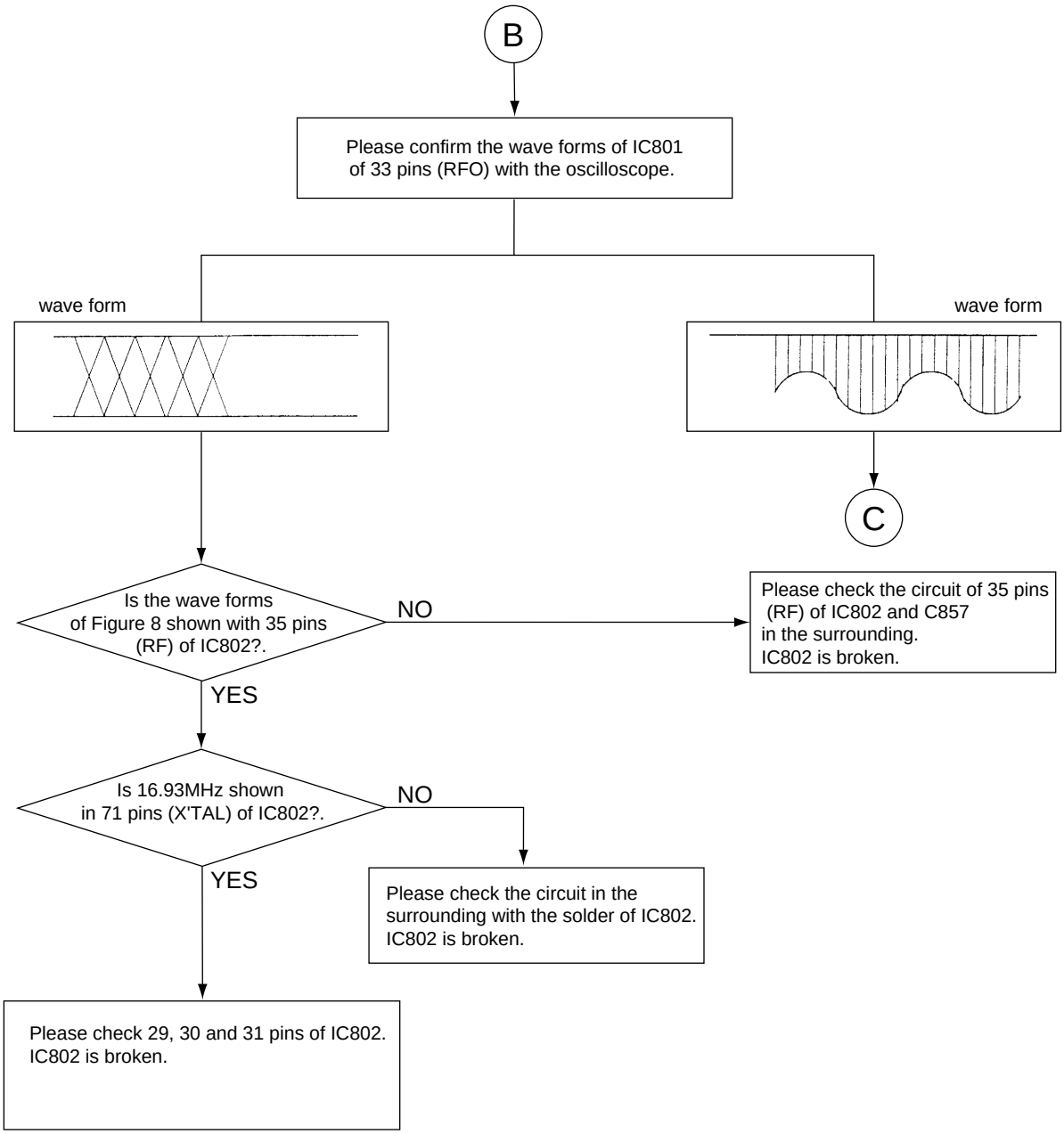


Fig. 6 Fig. 7



2-B


B
Please confirm the wave forms of IC801
of 33 pins (RFO) with the oscilloscope.
wave form
wave form
C
Is the wave forms
of Figure 8 shown with 35 pins
(RF) of IC802?.
NO
Please check the circuit of 35 pins
(RF) of IC802 and C857
in the surrounding.
IC802 is broken.
YES
Is 16.93MHz shown
in 71 pins (X'TAL) of IC802?.
NO
YES
Please check the circuit in the
surrounding with the solder of IC802.
IC802 is broken.
Please check 29, 30 and 31 pins of IC802.
IC802 is broken.

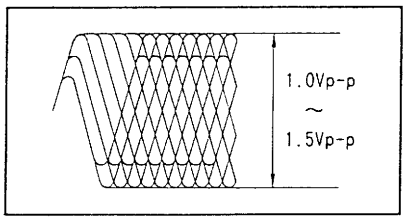
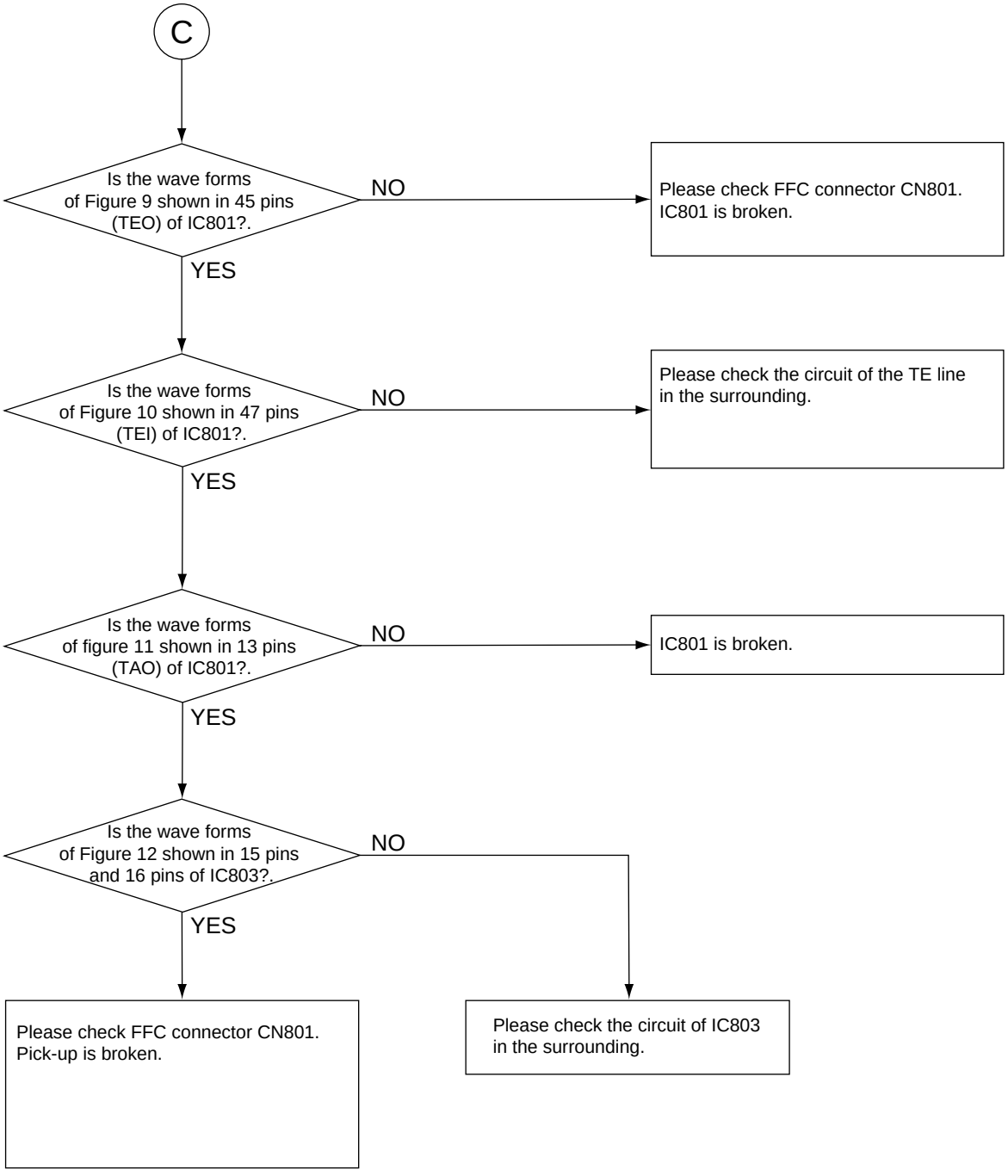

1.0Vp-p
～
1.5Vp-p

Fig. 8

2-C


C
Is the wave forms of Figure 9 shown in 45 pins (TEO) of IC801?.
NO
Please check FFC connector CN801. IC801 is broken.
YES
Is the wave forms of Figure 10 shown in 47 pins (TEI) of IC801?.
NO
Please check the circuit of the TE line in the surrounding.
YES
Is the wave forms of figure 11 shown in 13 pins (TAO) of IC801?.
NO
IC801 is broken.
YES
Is the wave forms of Figure 12 shown in 15 pins and 16 pins of IC803?.
NO
YES
Please check FFC connector CN801. Pick-up is broken.
Please check the circuit of IC803 in the surrounding.

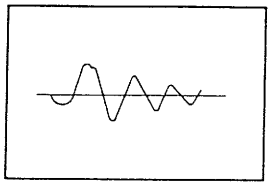


Fig. 9

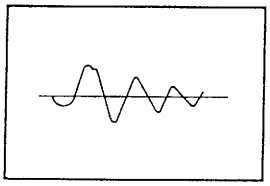


Fig. 10

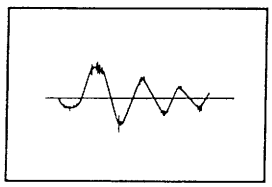


Fig. 11

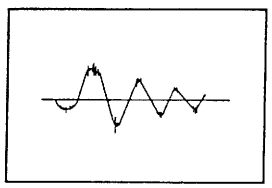
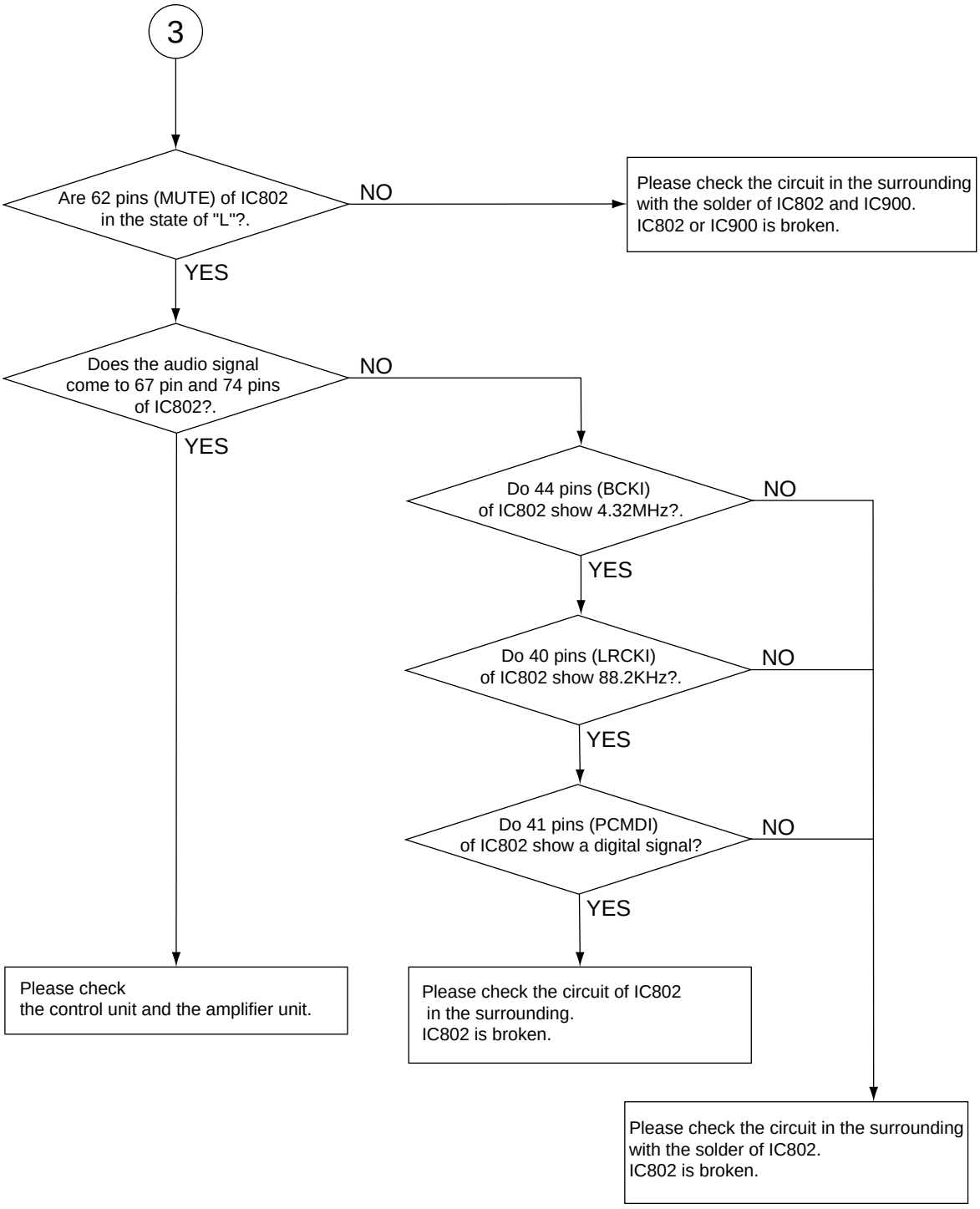
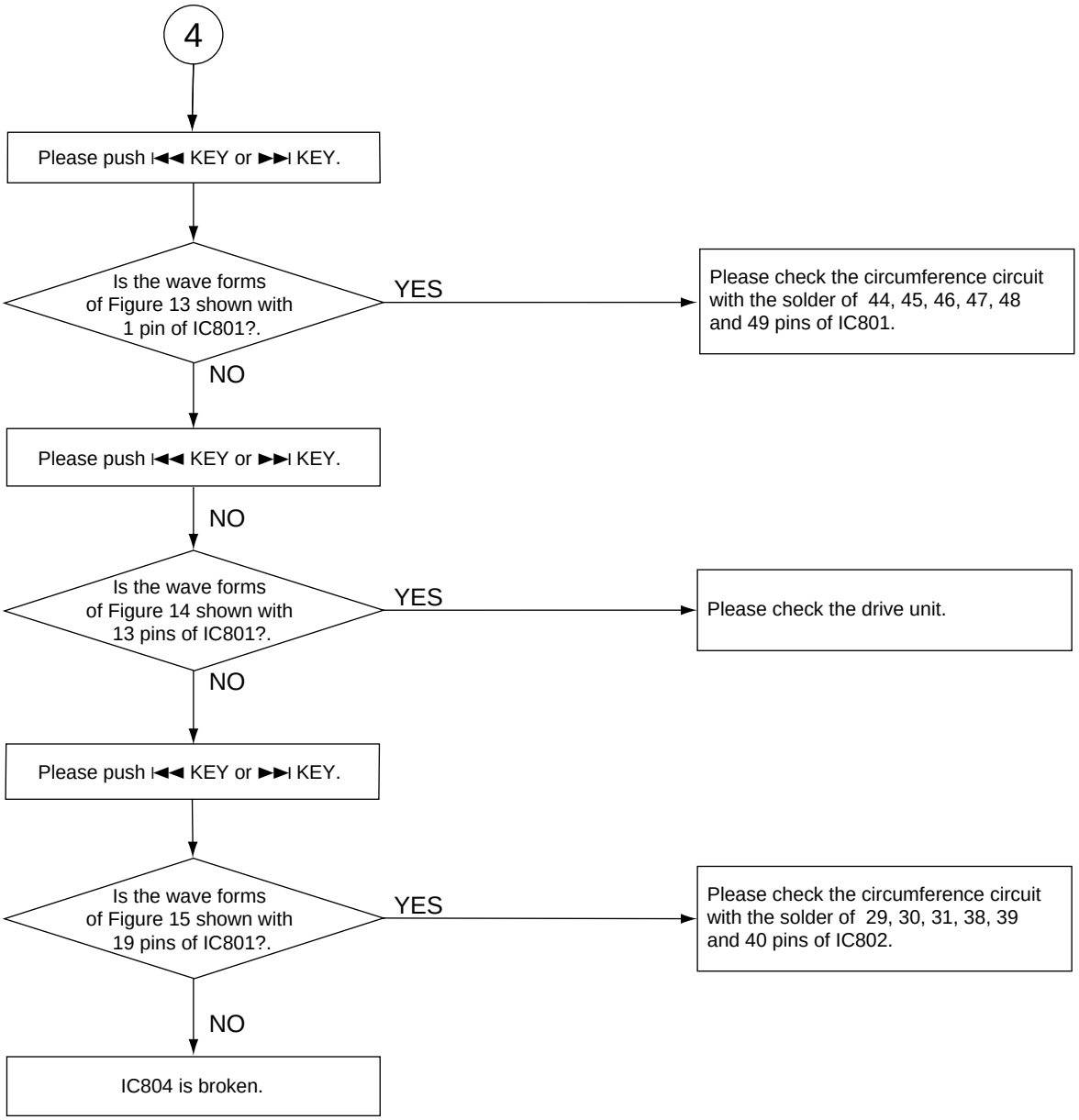


Fig. 12

3. When the audio signal (analog) is not sent to the output jack.


3
Are 62 pins (MUTE) of IC802 in the state of "L"?.
NO
Please check the circuit in the surrounding with the solder of IC802 and IC900. IC802 or IC900 is broken.
YES
Does the audio signal come to 67 pin and 74 pins of IC802?.
NO
YES
Do 44 pins (BCKI) of IC802 show 4.32MHz?.
NO
YES
Do 40 pins (LRCKI) of IC802 show 88.2KHz?.
NO
YES
Do 41 pins (PCMDI) of IC802 show a digital signal?
NO
YES
Please check the control unit and the amplifier unit.
Please check the circuit of IC802 in the surrounding. IC802 is broken.
Please check the circuit in the surrounding with the solder of IC802. IC802 is broken.

4. When you cannot smoothly select music.


4
Please push I◄◄ KEY or ►►I KEY.
Is the wave forms of Figure 13 shown with 1 pin of IC801?.
YES
Please check the circumference circuit with the solder of 44, 45, 46, 47, 48 and 49 pins of IC801.
NO
Please push I◄◄ KEY or ►►I KEY.
NO
Is the wave forms of Figure 14 shown with 13 pins of IC801?.
YES
Please check the drive unit.
NO
Please push I◄◄ KEY or ►►I KEY.
Is the wave forms of Figure 15 shown with 19 pins of IC801?.
YES
Please check the circumference circuit with the solder of 29, 30, 31, 38, 39 and 40 pins of IC802.
NO
IC804 is broken.

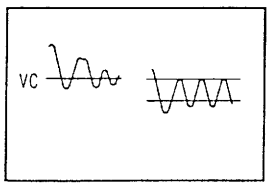


Fig. 13

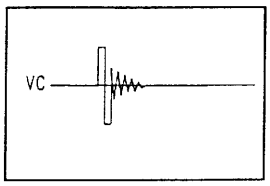


Fig. 14

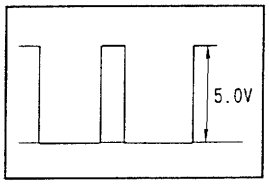
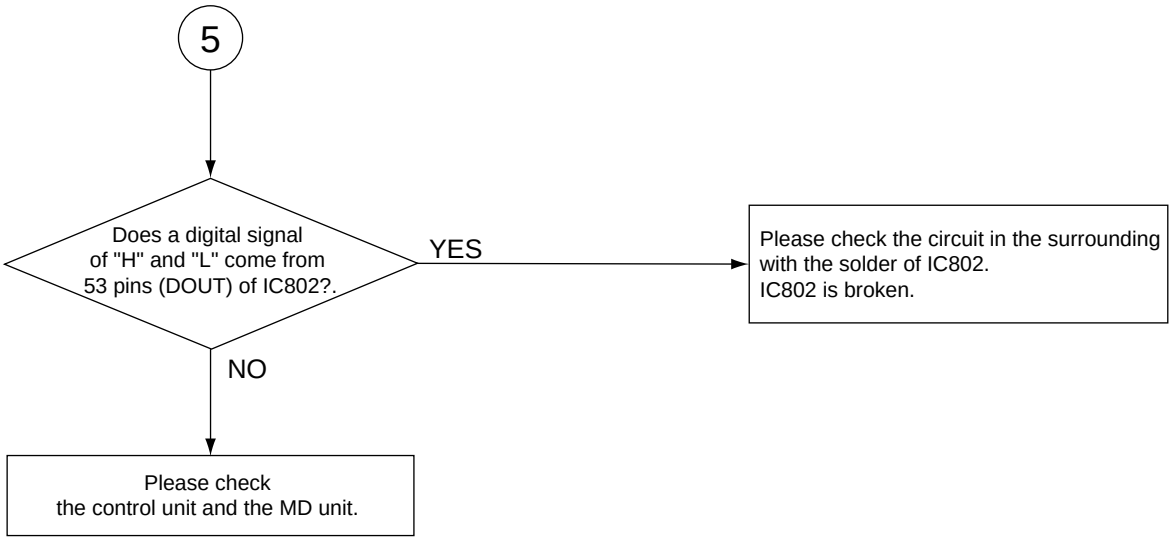


Fig. 15

5. When the audio signal (digital) is not sent to the output jack.

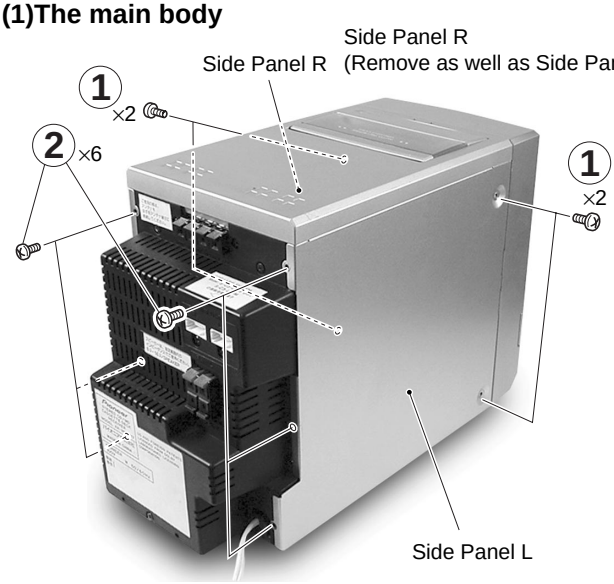


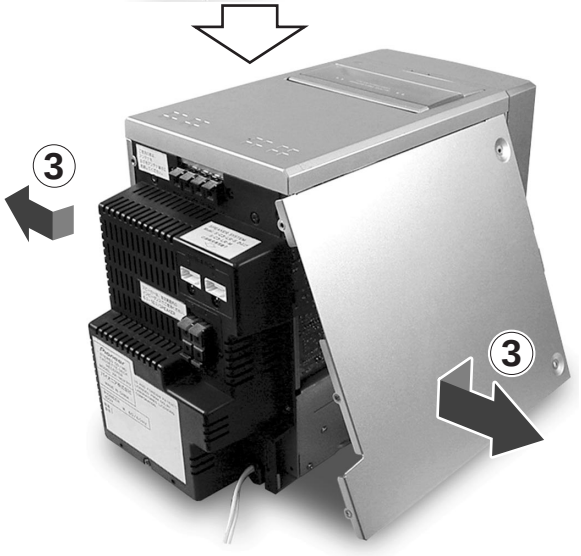
7.1.2 DISASSEMBLY/ASSSEMBLY

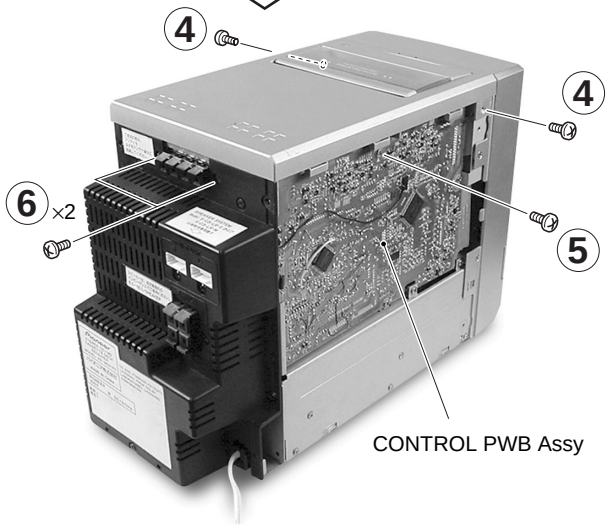
CAUTION

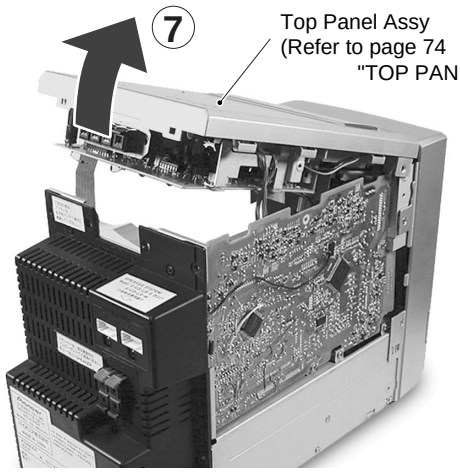
- Please note static electricity at the FRONT PWB ASSY (LC700) repair.

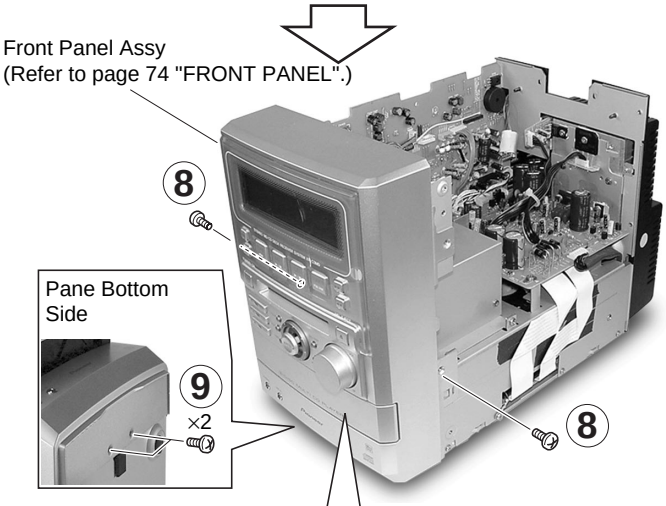
(1)The main body

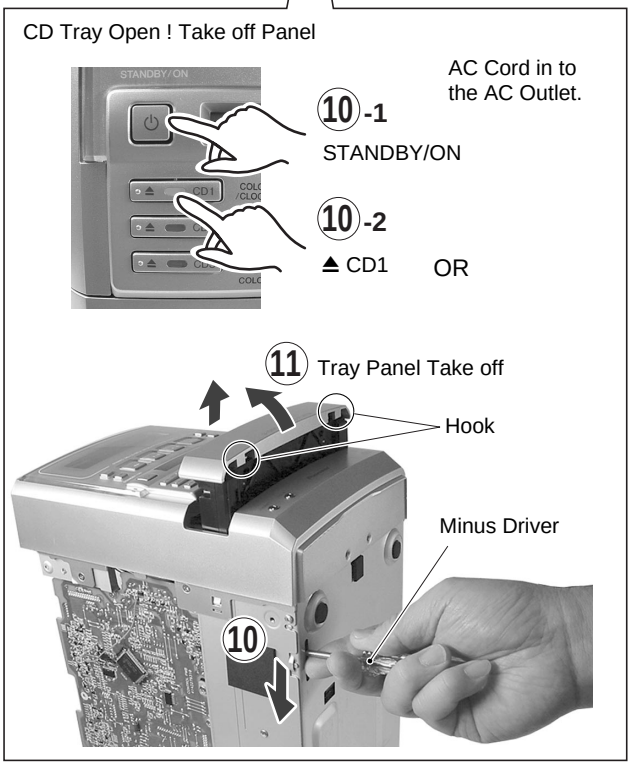


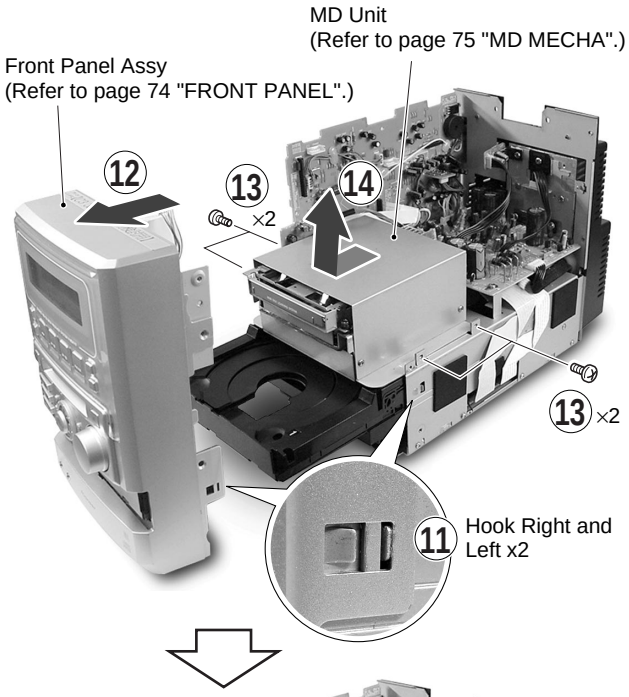


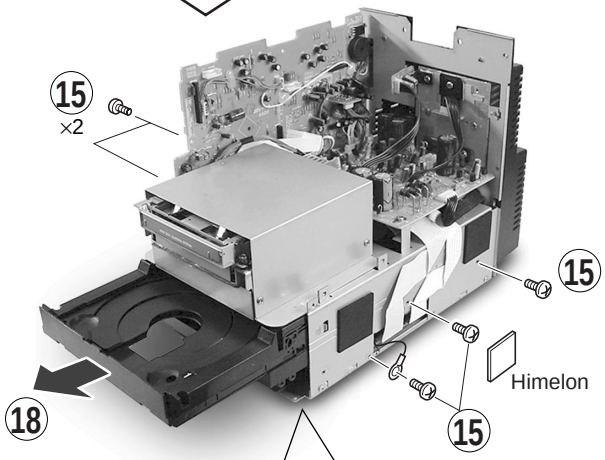


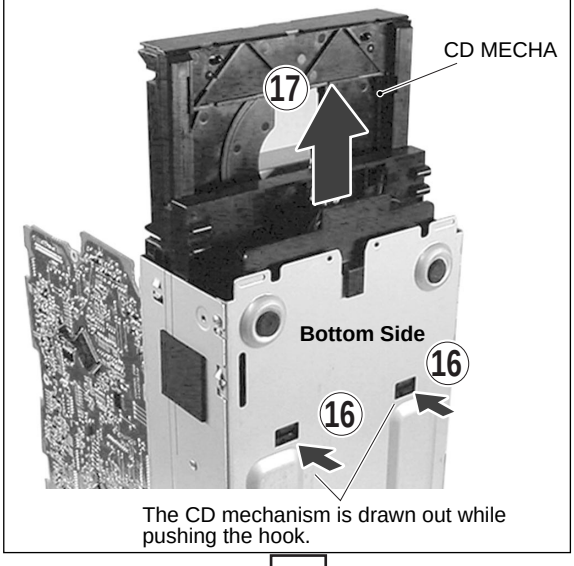






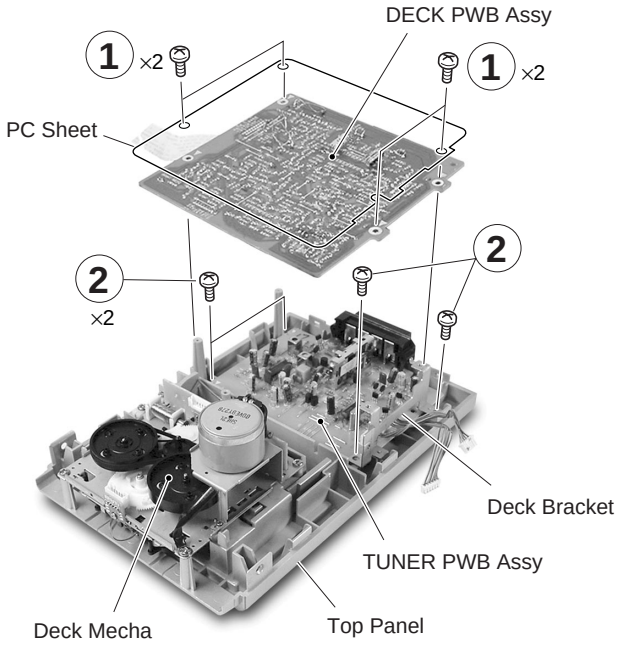




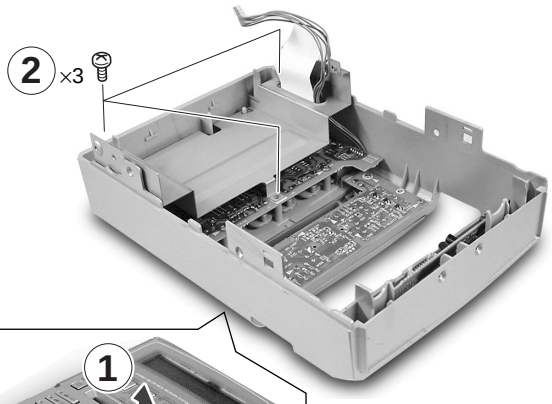


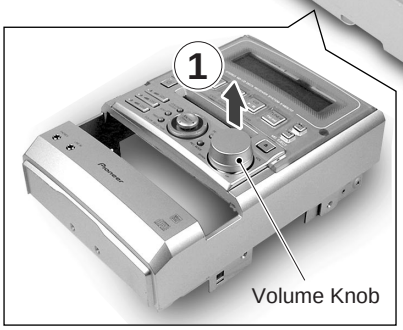
(Refer to page 76 "CD MECHA".)

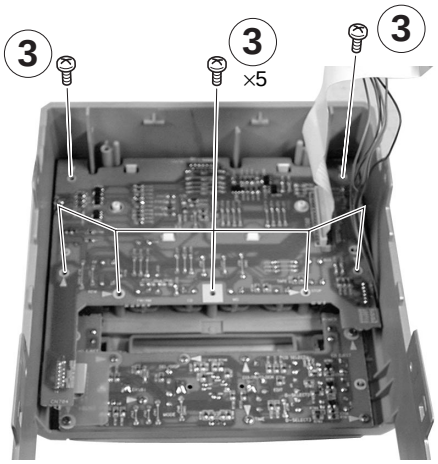
■ TOP PANEL ASSY



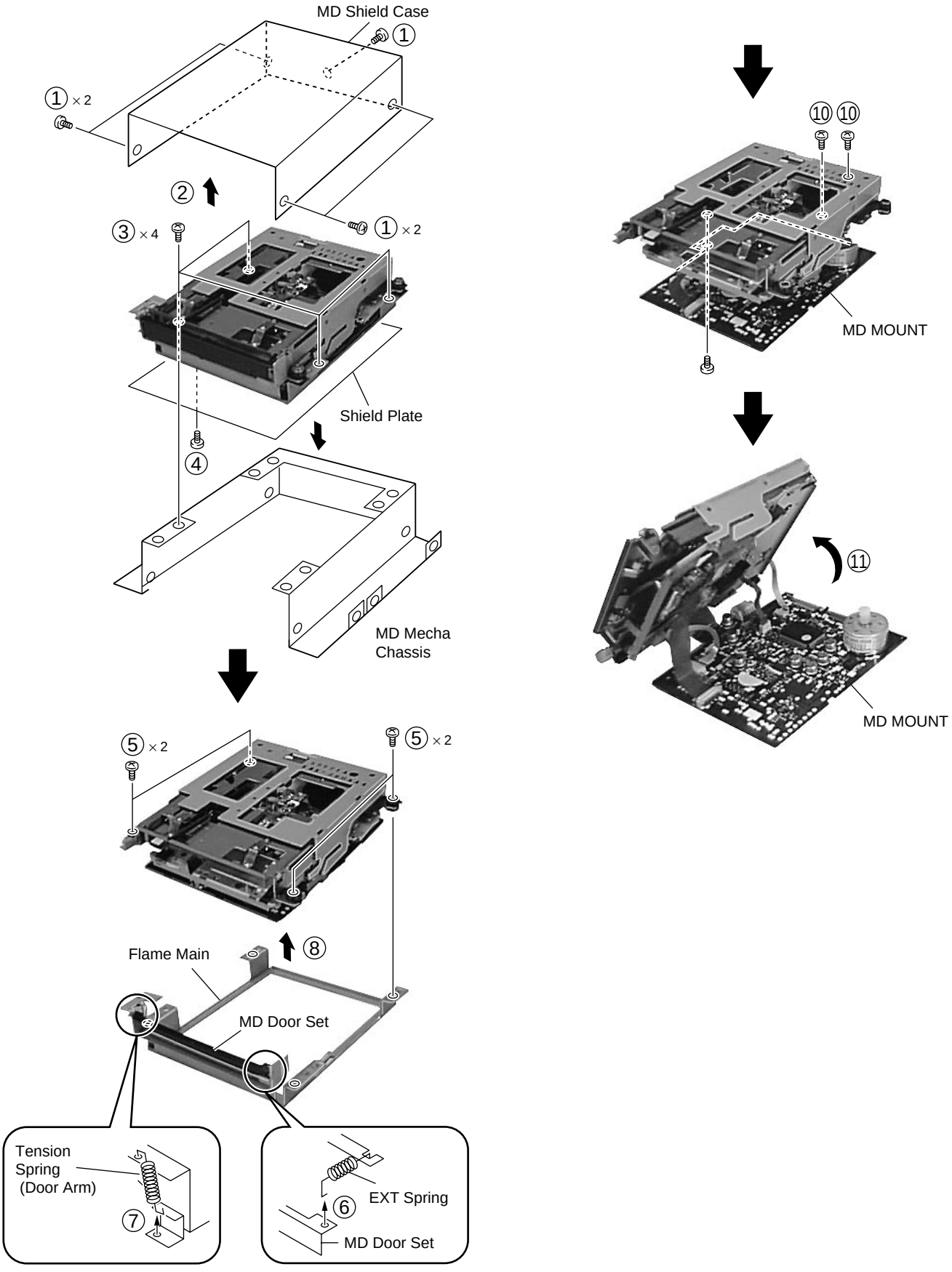
■ FRONT PANEL ASSY







■ MD MECHA

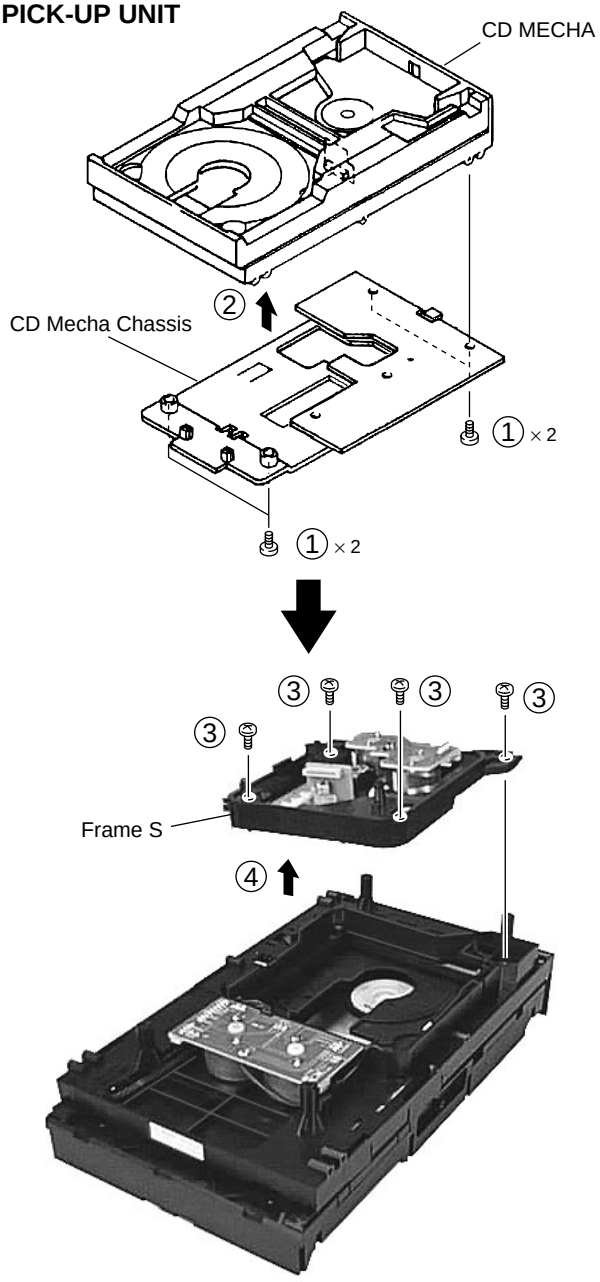

MD Shield Case
① × 2
②
③ × 4
① × 2
Shield Plate
④
MD Mecha Chassis
⑤ × 2
⑤ × 2
⑧
Flame Main
MD Door Set
Tension Spring (Door Arm)
⑦
⑥
EXT Spring
MD Door Set
⑩ ⑩
MD MOUNT
⑪
MD MOUNT

(2) CD MECHA

CAUTION

- The CD mechanism should not disassemble when repairing and exchanging Pick-up Unit.
  When the exchange of Carriage 100, 200, 300, and the part Clamper and something wrong with the loading operations is repaired, it is necessary to disassemble the CD mechanism. Please disassemble and repair according to the following procedures.
  If Tray Panel Set is not detached when the CD mechanism is repaired, the CD mechanism cannot be removed from the main body of the product.
  When Drawer was not able not to open and shut by some something wrong's (The power supply does not enter, etc.) occurring, and remove Tray Panel Set, Slider 2 of the CD mechanism is moved from the ditch of the chassis on the bottom side of the product with a minus driver and Drawer is drawn out. Afterwards, please remove Front Unit after removing Tray Panel Set .

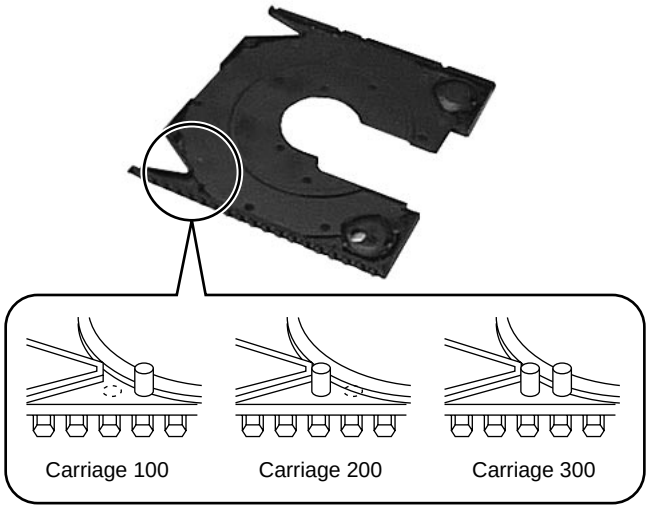
■ PICK-UP UNIT



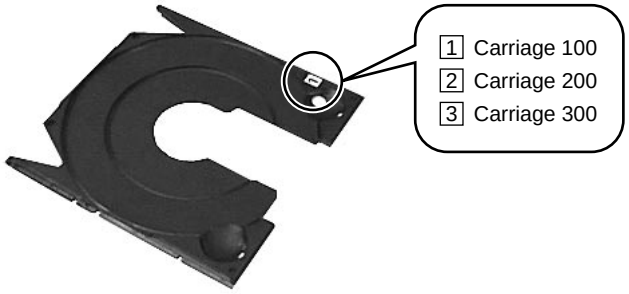
The back of CD mecha

■ CAUTION FOR DISASSEMBLY/ASSSEMBLY OF CD MECHA

1. As for the distinction method of Carriage100, 200, and 300, Switch distinguishes the shape of the projection part on its back. Please confirm the number seal pasted to the surface of Carriage and the projection shape of the figure below when you exchange it.

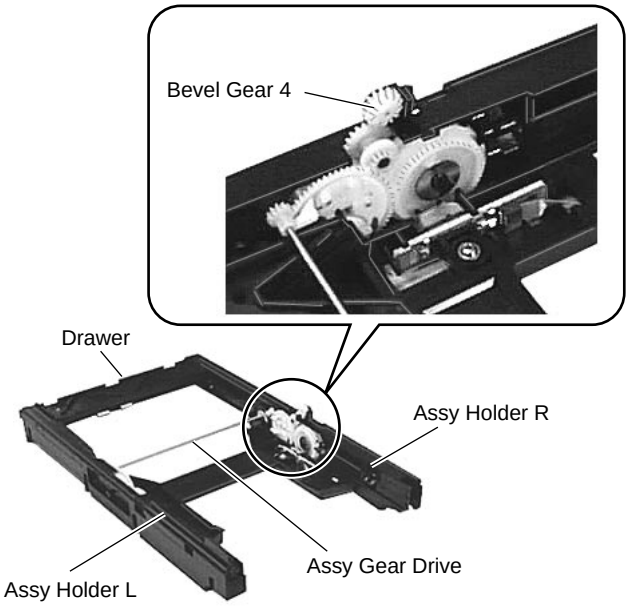


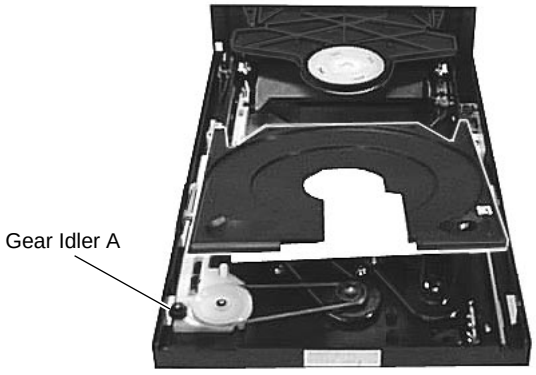
Method of distinguishing the back of Carriage.



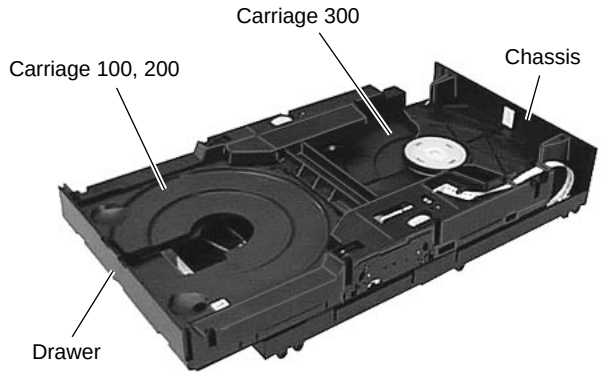
Method of distinguishing surface of Carriage.

2. Please do not disassemble Assy Holder L, R and the inside of and Drawer, and do not disassemble Assy Gear Drive which connects Assy Holder L with R.
   (The position match of each gear is necessary)
3. Please do not lose the gear (Bevel Gear 4 and Gear Idler A) not fixed while put in the axis.

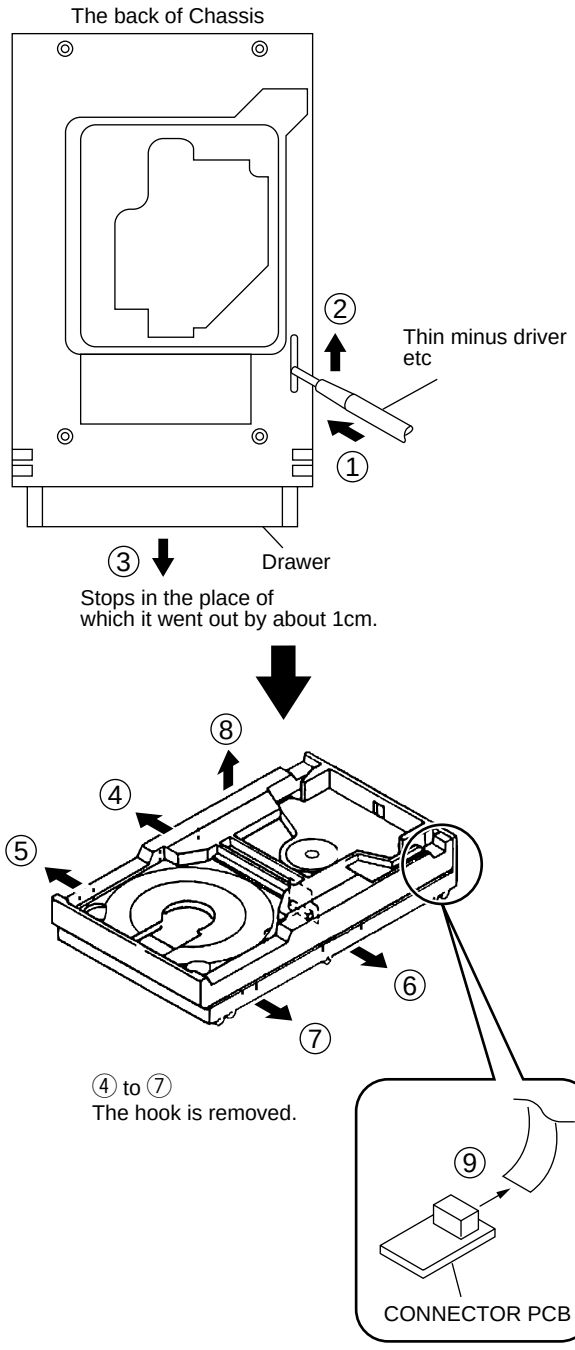




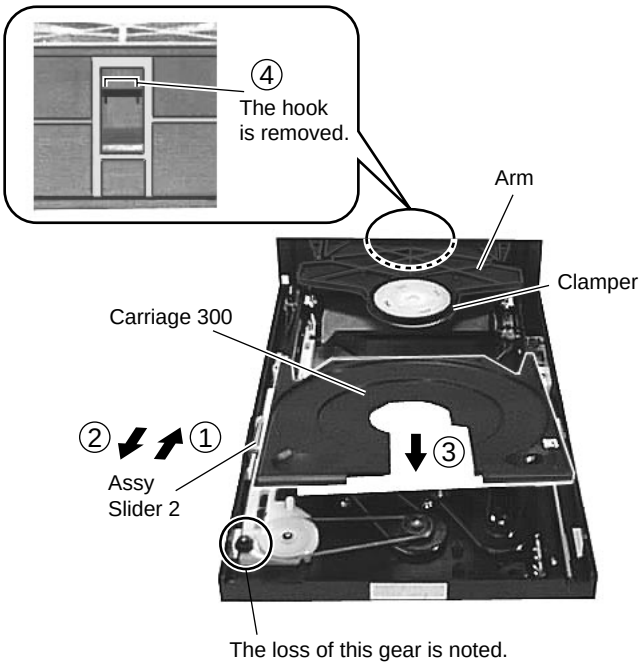
4. Carriage 300 is put in the Chassis side, and please put in the Drawer side without fail in order of Carriage 100 and 200.

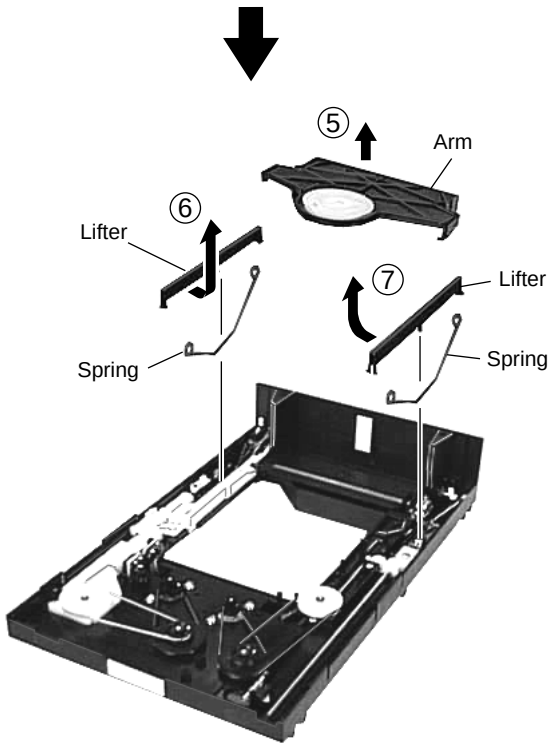


■ DRAWER

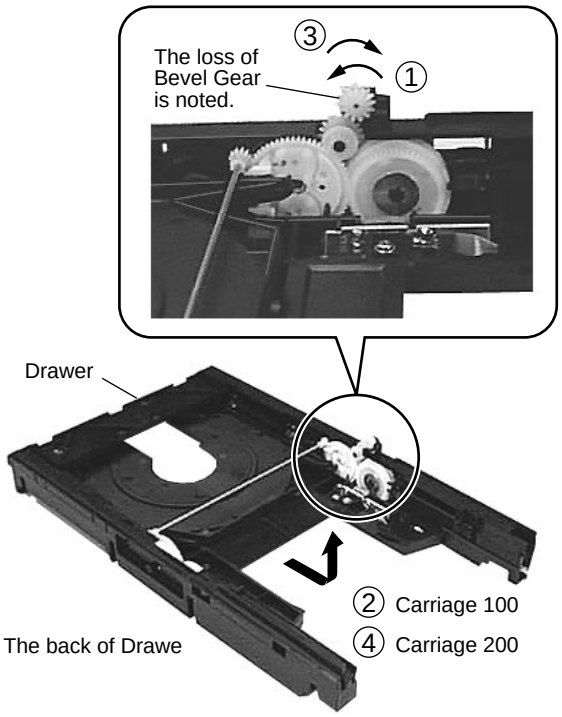


■ CHASSIS



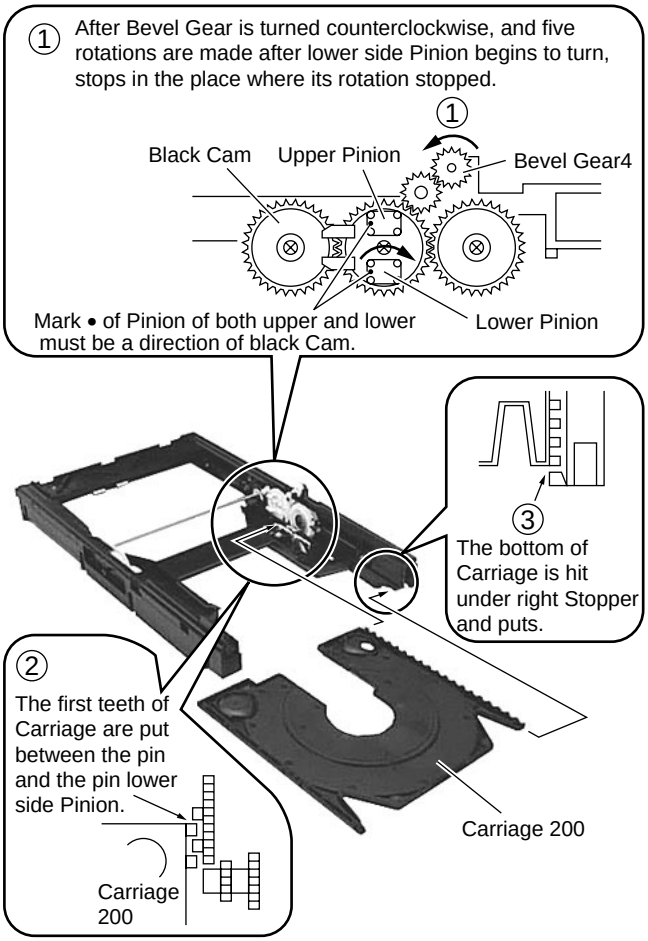


■ DISASSEMBLY OF CARRIAGE 100, 200

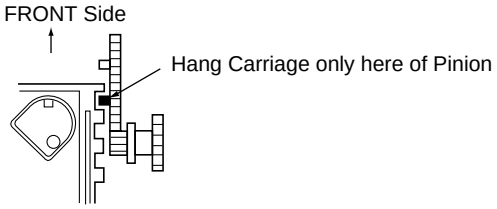


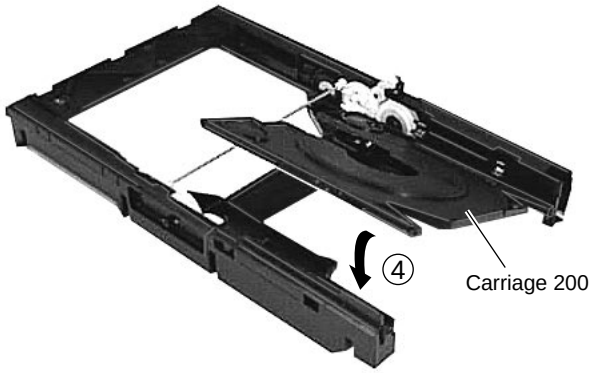
■ ASSSEMBLY OF CARRIAGE 100, 200

(Carriage 100 is No.1 carriage. Carriage 200 is No.2 carriage.)


①
After Bevel Gear is turned counterclockwise, and five rotations are made after lower side Pinion begins to turn, stops in the place where its rotation stopped.
①
Black Cam
Upper Pinion
Bevel Gear4
Mark • of Pinion of both upper and lower must be a direction of black Cam.
Lower Pinion
③
The bottom of Carriage is hit under right Stopper and puts.
②
The first teeth of Carriage are put between the pin and the pin lower side Pinion.
Carriage 200
Carriage
200

● Notes of procedure ③.

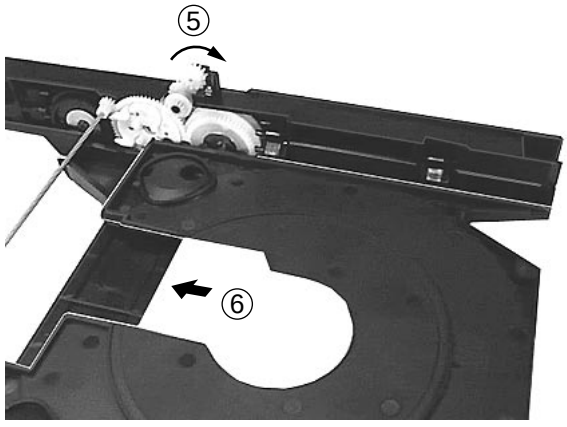




④-1 The other side of the side applied by ③ of Carriage is lightly pushed.

④-2 Puts Carriage 100 on Carriage 200 which applies by ④-1. Be careful about notes by ③ at this time.

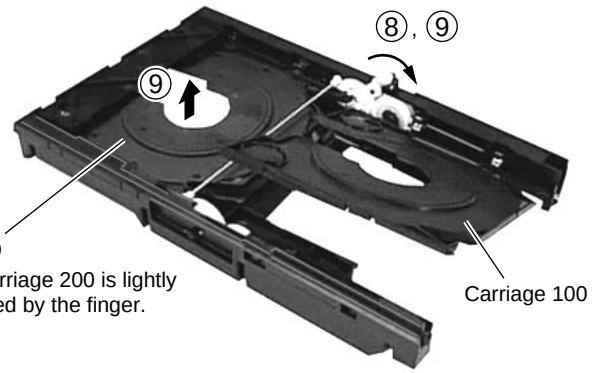
⑤ Bevel Gear is turned clockwise. (direction of a rear side from a front side)



⑥-1 Carriage 200 moves to a front side.

⑥-2 Bevel Gear is turned as it is clockwise. (direction of a rear side from a front side)

⑥-3 Carriage 100 drops below.

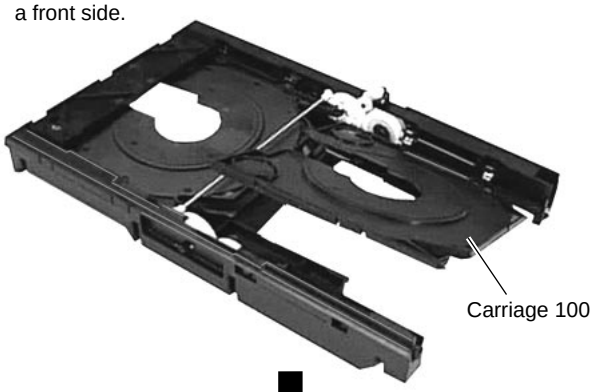


⑦ When Carriage 100 drops below, Carriage 200 is lightly lifted by the finger.
Note : Lift it horizontally when you lift Carriage. Carriage inclines when it is not the horizontal, and mechanism locks.

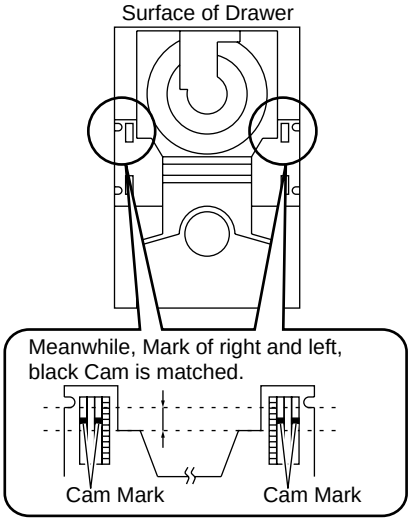
⑧ Bevel Gear is turned clockwise (direction of a rear side from a front side) like the state of ⑦ .

⑨ Carriage 200 lifts up. And, when the movement is started Carriage 100 to the direction of a front side, separates the hand which lifted Carriage 200.

⑩ Keeps turning Bevel Gear clockwise (direction of a rear side from a front side) until Carriage 100 bumps to the wall on a front side.



⑪ The position of a right and left, black cam is matched while confirming it from the table side of Drawer.

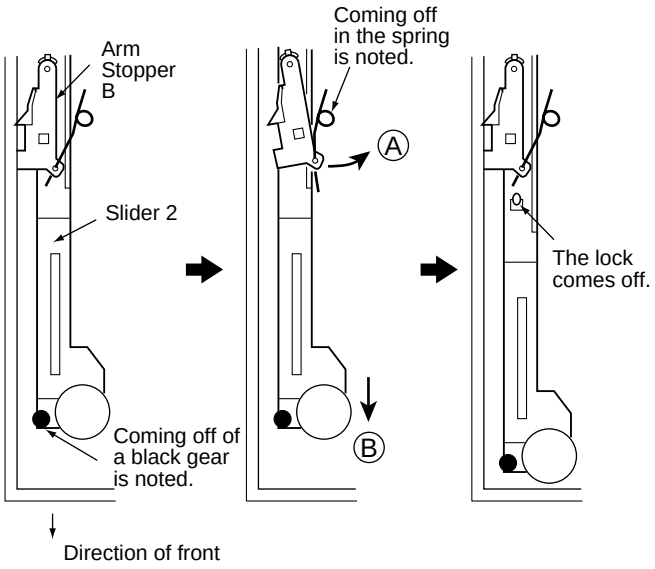


■ ASSSEMBLY OF DRAWER AND CHASSIS

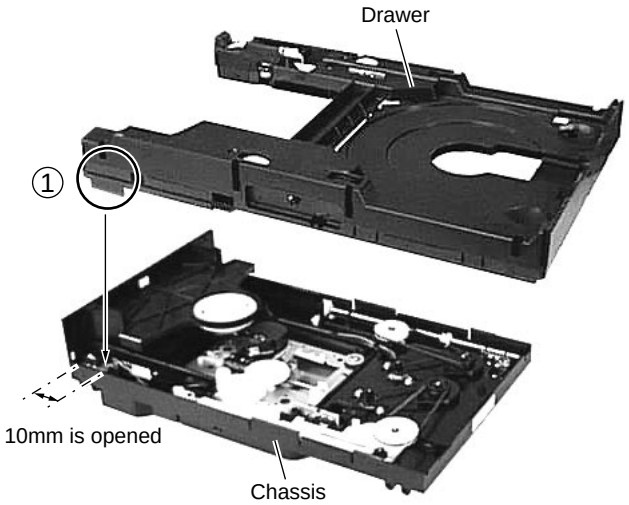
The following work is done before Drawer is put on Chassis.

(1) It is confirmed that Carriage 300 is clamped, and Clamper has fallen.
(2) It is confirmed to Drawer to be built in neatly in order of Carriage 200 and 100.
(3) Arm Stopper B is moved horizontally (inside) as shown in the figure below. Ⓐ
(4) Pulls Slider 2 until the lock comes off to the direction of ta front side. Ⓑ

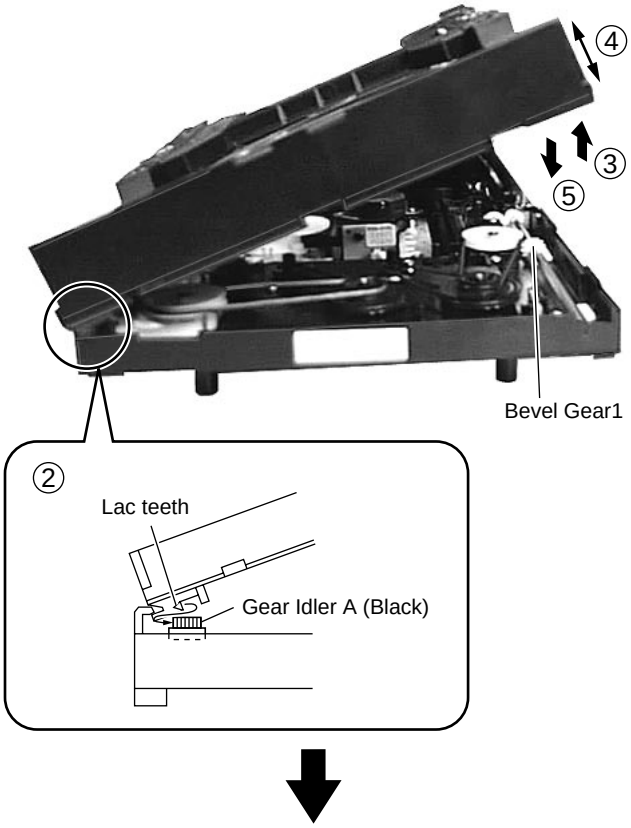
Note : Do not lift Arm Stopper B for above when you move Arm Stopper B.
There is a possibility to bend the spring when Arm Stopper B is lifted, and the spring bends. And, when Arm Stopper B becomes floatage feeling, Drawer is caught.



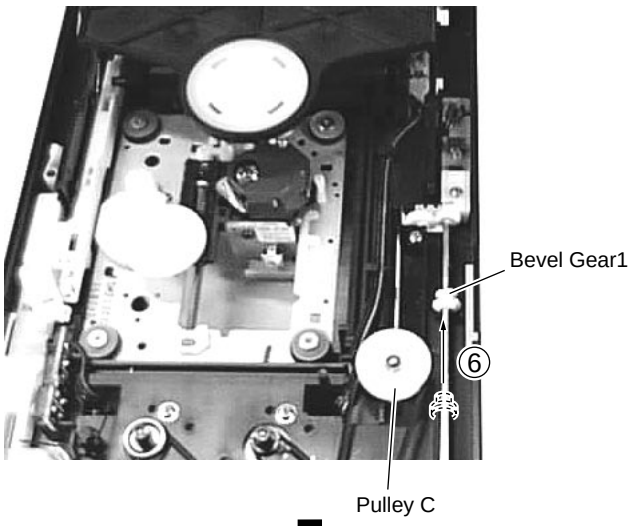
① This ◯ part of Drawer is put on Chassis like the arrow.

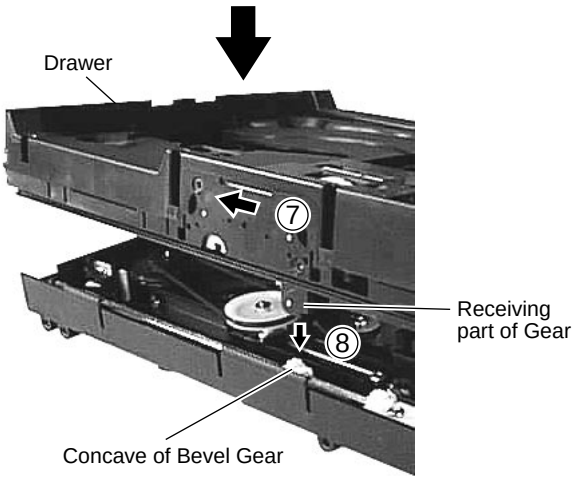


② The lac teeth and Gear Idler A are matched, and it is pressed under the diagonal lightly.
③ Right this side of Drawer is lifted.
④ Drawer is moved back and forth, and stops Drawer with the point which it enters left.
⑤ Its right side is slowly lowered up to the angle by which Bevel Gear can do in the slide while doing Drawer back and forth by about 5mm.

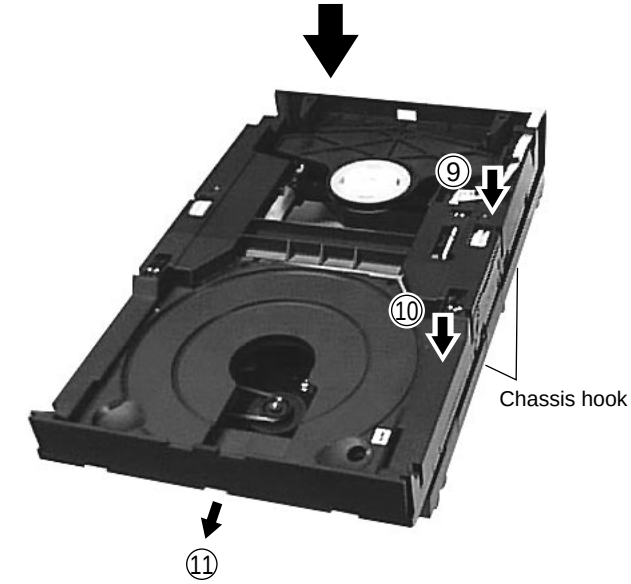


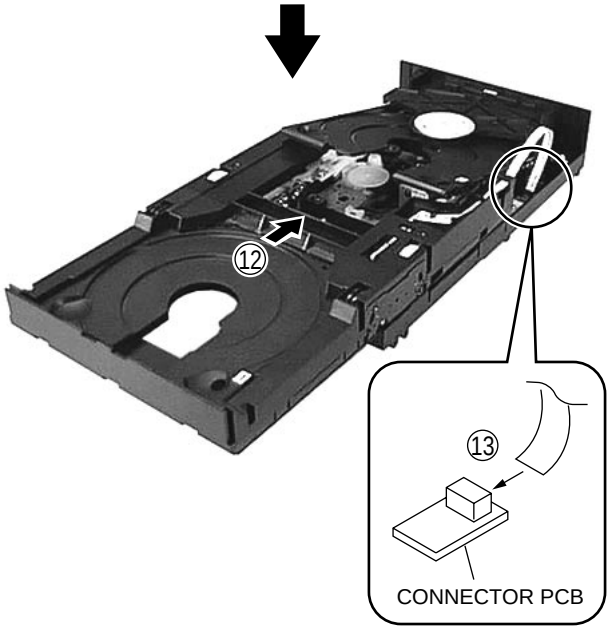
⑥ Bevel Gear is done in the slide in the middle of Pulley C and Carriage 300.





⑧ When peeps from the inside of Drawer when the receiving part of Gear is fixed into the concave part of Bevel Gear, the place where it is fixed is comprehensible.





7.2 PARTS

7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

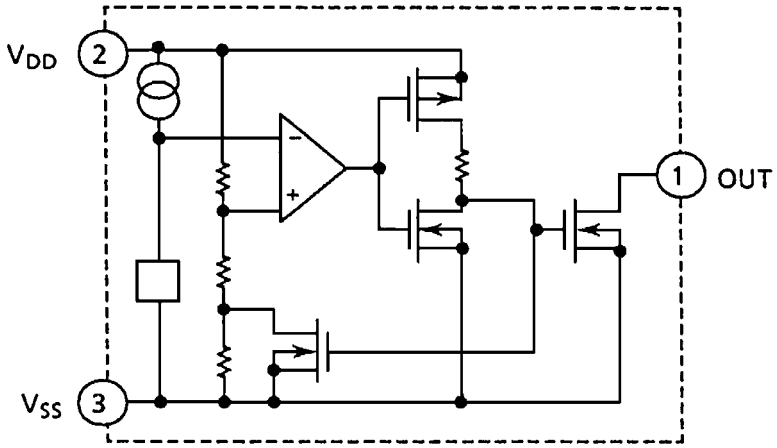
● List of IC

415980727A (S-8072AN-DQ-T1) , 415C74096A (CXP740096-122Q)

■ 415980727A (S-80727AN-DQ-T1) (CONTROL PWB ASSY : IC902)

• High Accuracy Voltage Detector

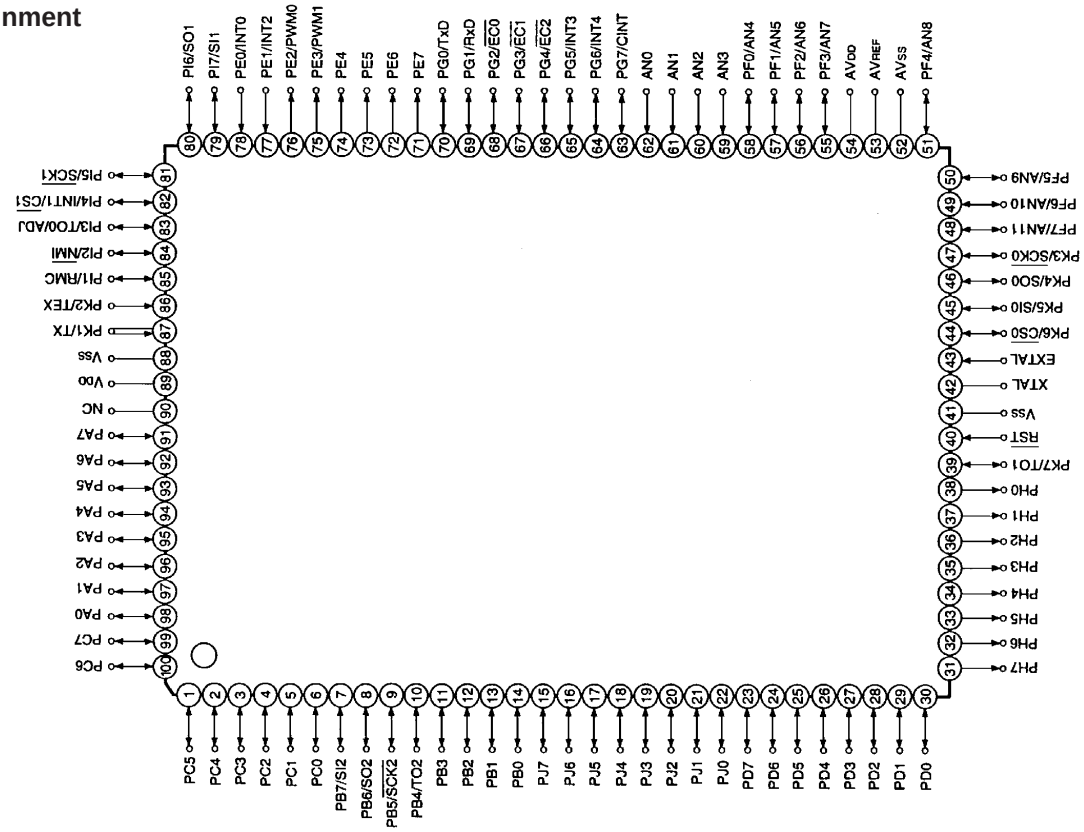
● Block Diagram



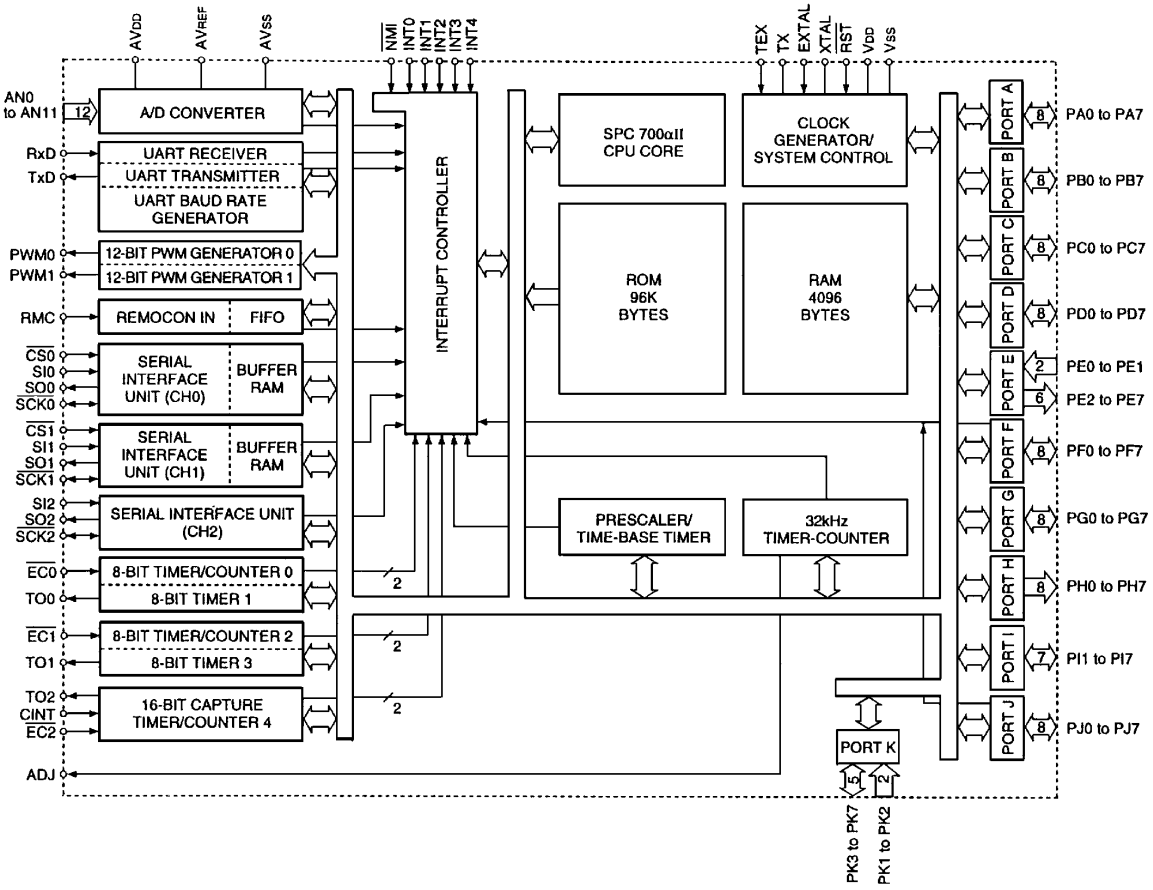
415C74096A (CXP740096-122Q) (CONTROL PWB ASSY : IC900)

- **Main Control IC**

● Pin Assignment



● Block Diagram



● Pin Function

No.	Mark & In/Out	Pin Name	I/O	Function
1	PC5(I/O)	LCD_RW	O	Read-Write serect Signal output for LCD
2	PC4(I/O)	ELCONT	O	KEY_LIGHT Control Signal output
3	PC3(I/O)	LD_CLOCK	O	LED Control IC Serial Clock Signal output
4	PC2(I/O)	LD_DATA	O	LED Control IC Serial Data Signal output
5	PC1(I/O)	LD_LAT	O	LED Control IC Serial Latch Signal output
6	PC0(I/O)	LED CONT.	O	LED Control Signal output
7	PB7(I/O) / SI2(I)	BLCONT2 B	O	BACK-LIGHT CONTROL2 Signal output (BLUE)
8	PB6(I/O) / SO2(I)	BLCONT1 G	O	BACK-LIGHT CONTROL1 Signal output (GREEN)
9	PB5(I/O) / SCK2(Z)(I/O)	BLCONT0 R	O	BACK-LIGHT CONTROL0 Signal output (RED)
10	PB4(I/O) / TO2(O)	BEEP	I	BEEP Signal output (Freq. =4kHz, Duty=50%)
11	PB3(I/O)	STEREO	I	STEREO Signal input for TUNER
12	PB2(I/O)	T_CLOCK	O	Serial clock Signal output for TUNER
13	PB1(I/O)	T_DATA	I/O	Serial data Signal input and output for TUNER
14	PB0(I/O)	PERIOD	O	Serial latch Signal output for TUNER
15	PJ7(I/O)	RECMUTE	O	RECMUTE Control Signal output
16	PJ6(I/O)	REC_BIAS	O	RECBIAS Control Signal output
17	PJ5(I/O)	TPSS	I	MUSIC_SPACE Detection Signal input
18	PJ4(I/O)	PHOTO	I	Photo detector Signal output
19	PJ3(I/O)	C. JOG 1	I	Color Encoder Signal input 1
20	PJ2(I/O)	C. JOG 0	I	Color Encoder Signal input 0
21	PJ1(I/O)	V. JOG 1	I	Volume Encoder Signal input 1
22	PJ0(I/O)	V. JOG 0	I	Volume Encoder Signal input 0
23	PD7(I/O)	REPEAT	O	MUSIC_SCAN Signal output
24	PD6(I/O)	SOLENOID	O	SOLENOID Control Signal output
25	PD5(I/O)	REC/PLAY	O	REC/PLAY Control Signal output
26	PD4(I/O)	D_MUTE	O	DECK_MUTE Control output
27	PD3(I/O)	BEATCUT	O	BEATCUT Control Signal output
28	PD2(I/O)	LOCK	O	Thread preventative Control Signal output for CD
29	PD1(I/O)	MOTOR	O	MOTOR Control Signal output
30	PD0(I/O)	PSCONT	O	Power supply Control Signal output
31	PH7(O)	SOUND_CE	O	SOUND Control Signal output
32	PH6(O)	SPUND_DI	O	SOUND Control Signal output
33	PH5(O)	SOUND_CL	O	SOUND Control Signal output
34	PH4(O)	S_MUTE	O	SYSTEM_MUTE Control output
35	PH3(O)	F_CD	O	CD_FUNCTION Control Signal output
36	PH2(O)	F_MD	O	MD_FUNCTION Control Signal output
37	PH1(O)	F_TUNER	O	TUNER_FUNCTION Control Signal output
38	PH0(O)	F_TAPE	O	TAPE_FUNCTION Control Signal output
39	PK7(I/O) / TO1(I)	F_AUX	O	AUX_FUNCTION Control Signal output
40	RST(Z) (I)	RESET	I	System RESET Signal input
41	Vss	Vss	-	Connect Vss
42	XTAL	XTAL	-	X'TAL for MAIN (16MHz)
43	EXTAL(I)	EXTAL	-	X'TAL for MAIN (16MHz)
44	PK6(I/O) / COS(Z)(I)	CLKSFT	O	CLOCK_SHIFT Control Signal output
45	PK5(I/O) / SI0(I)	PSDET1	I	POWER_DOWN Detection Signal input for DECK
46	PK4(I/O) / SO0(O)	SENSE 2	I	SENS Signal input for CD (RF Servo Amp)
47	PK3(I/O) / SCK0(Z)(I/O)	TUNING	O	TUNING Signal input for TUNER
48	PF7(I/O) / AN11(I)	PSDET0	I	POWER (AC) Detection Signal input
49	PF6(I/O) / AN10(I)	MODE	I	MODE input
50	PF5(I/O) / AN9(I)	DECK SW2/3	I	DECK- SW2, SW3 input

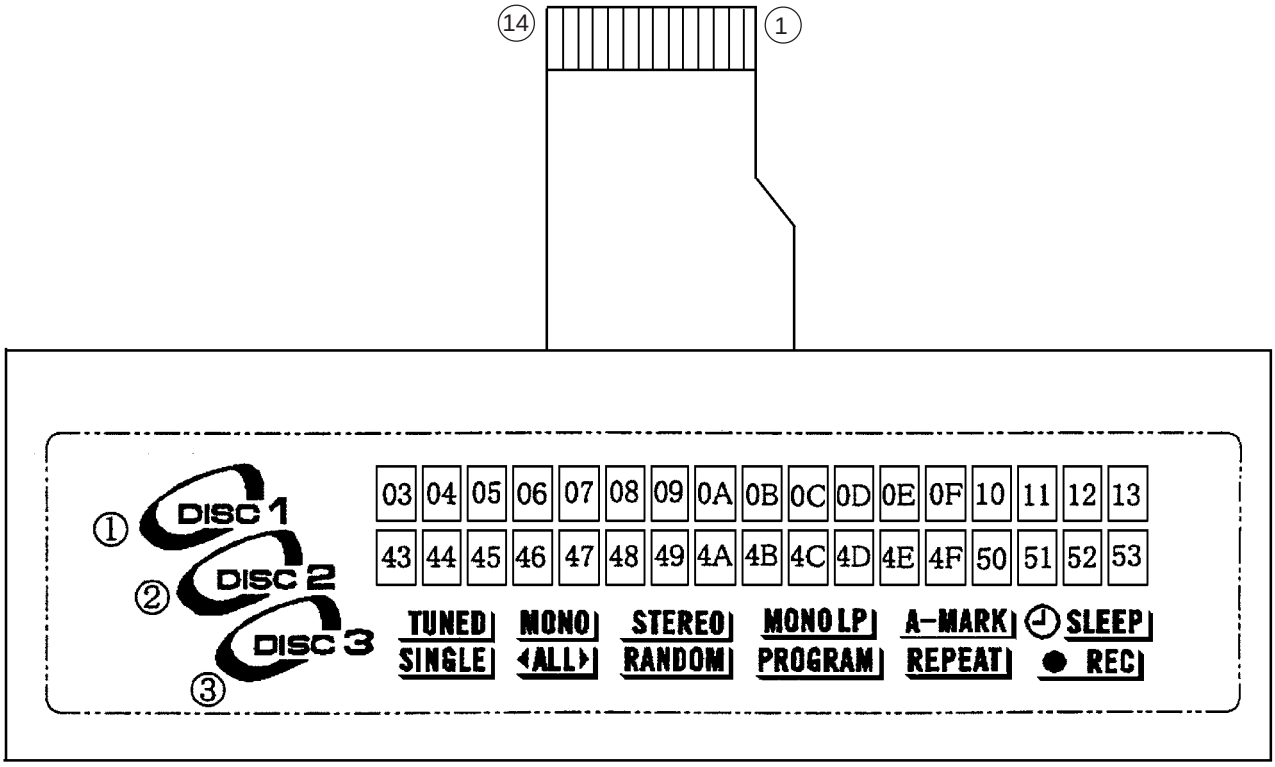
No.	Mark & In/Out	PIn name	I/O	Function
51	PF4(I/O) / AN8(I)	VJOG0	I	Volume Encoder Signal input
52	AVss	AVss	-	Connect Vss (Vss for A/D converter)
53	AVref	AVref	-	Connect Vdd (Reference voltage for A/D converter)
54	AVdd	AVdd	-	Connect Vdd (Vdd for A/D converter)
55	PF3(I/O) / AN7(I)	KEY3	I(A/D)	KEY-SW A/D input
56	PF2(I/O) / AN6(I)	KEY2		
57	PF1(I/O) / AN5(I)	KEY1		
58	PF0(I/O) / AN4(I)	KEY0		
59	AN3(I)	TRAYSW3	I(A/D)	TRAY-SW A/D input
60	AN2(I)	TRAYSW2		
61	AN1(I)	TRAYSW1		
62	AN0(I)	TRAYSW0		
63	PG7(I/O) / CINT(I)	CD_MUTE	O	MUTE Control Signal output for CD
64	PG6(I/O) / INT4(I)	TEMPDET	I	MD_TEMP detector input
65	PG5(I/O) / INT3(I)	MD_CTS	I	Transfer request Signal input for MD
66	PG4(I/O) / EC2(I)	MD_REC	O	MD_RECMUTE Control Signal output
67	PG3(I/O) / EC1(I)	MD_RST	O	MD_RESET Signal output for MD
68	PG2(I/O) / EC0(I)	MD_RTS	O	Transfer request Signal output for MD
69	PG1(I/O) / RxD(O)	MD_RxD	I	MDControl DATA input
70	PG0(I/O) / TxD(I)	MD_TxD	O	MD Control DATA output
71	PE7(O)	CD_CTL4	O	Driver Control Signal output
72	PE6(O)	CD_CTL3		
73	PE5(O)	CD_CTL2		
74	PE4(O)	CD_CTL1		
75	PE3(O) / PWM1(O)	CD_XLT	O	Serial latch Signal output for CD
76	PE2(O) / PWM0(O)	CD_CLK	O	Serial clock Signal output for CD
77	PE1(I) / INT2(I)	CD_SENS	I	SENS Signal input for CD
78	PE0(I) / INT0(I)	CS_SCOR	I	SUB-CODE SYNC Signal input for CD
79	PI7(I/O) / SI1(I)	CD_SQSO	I	SUBQ Serial data Signal input for CD
80	PI6(I/O) / SO1(O)	CD_DATA	O	Serial data Signal input for CD
81	PI5(I/O) / SCK1(Z)(I/O)	CD_SQCK	O	SUBQ Serial clock Signal input for CD
82	PI4(I/O) / INT1(O) / CS1(Z)(I)	CD_XRST	O	Reset Control Signal output for CD
83	PI3(I/O) / TD0(O) / ADJ(O)	ADJ	O	SUB-CLOCK PRESCALLER output (16.384kHz)
84	PI2(I/O) / NMI(Z)(I)	PWR_KEY	I	POWER KEY Signal input
85	PI1(I/O) / RMC(I/O)	REMOTE	I	Remote control Signal input
86	PK2(I) / TEX(I)	TEX	-	X'tal for SUB (32.768kHz)
87	PK1(I) / TX(I)	TX	-	
88	Vss	Vss	-	Connect Vss
89	Vdd	Vdd	-	Connect Vdd
90	NC	NC	-	NO CONNECT
91	PA7(I/O)	LCD_DB7	I/O	Parallel data Signal input output for LCD for LCD
92	PA6(I/O)	LCD_DB6		
93	PA5(I/O)	LCD_DB5		
94	PA4(I/O)	LCD_DB4		
95	PA3(I/O)	LCD_DB3		
96	PA2(I/O)	LCD_DB2		
97	PA1(I/O)	LCD_DB1		
98	PA0(I/O)	LCD_DB0		
99	PC7(I/O)	LCD_E	O	Read-Write start Signal output for LCD
100	PC6(I/O)	LCD_RS	O	Resistor serect Signal output for LCD

7.2.2 DISPLAY

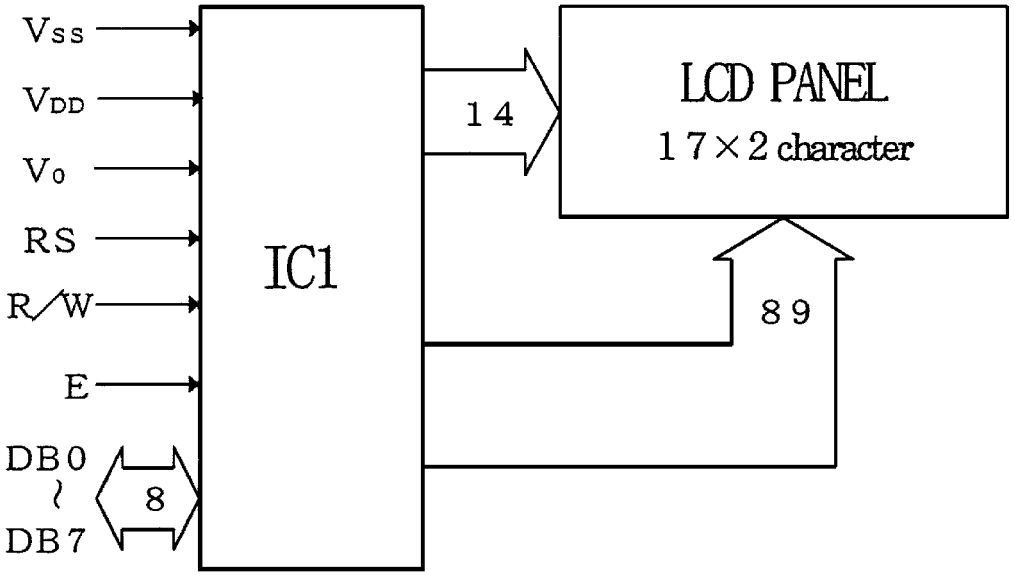
4110500274 (FRONT (A) PWB ASSY : LC700)

• **LCD PANEL**

● **Grid Assignment**



● **Block Diagram**



● **PICT Address**

DDRAM ADDRESS	40				
CGRAM ADDRESS	CGRAM DATA				
2 1 0 LOWER BIT →	4 ← UPPER BIT	3	2	1	0 LOWER BIT →
0 0 0					
0 0 1		③	②	①	
0 1 0		DISC 3	DISC 2	DISC 1	
0 1 1		TUNED	MONO	STEREO	
1 0 0		SINGLE	ALL	RANDOM	
1 0 1	MONO LP	REPEAT	PROGRAM		
1 1 0	A-MARK	REC		SLEEP	

● **Interface Pin Connection**

Pin No.	Symbol	Function	Level
1	Vss	Power supply (GND)	
2	VDD	Power supply for logic (+5V)	
3	Vo	Power supply for LCD	
4	RS	Signal to select the register ・H : Data register (R/W=L, R/W=H) ・L : Instruction register (R/W=L) Busy flag, address counter (R/W=H)	H/L
5	R/W	Signal to select between reading and writing ・H : Reading (MPU←Module) ・L : Writing (MPU→Module)	H/L
6	E	Enable Signal	H, H→L
7	DB0	Data bus Note) In case of 4 bit interface data, data are transferred by using only 4 buses of DB4～DB7. DB0～DB3 are not used. Data transfer is completed after 4 bit data are transferred twice. Data of the higher order 4 bits (the contents of DB4～DB7 When interface data are 8 bit long) are transferred first, and then the lower order 4bits (the contents of DB0～DB3 When interface data are 8 bit long) are transferred.	H/L
8	DB1		H/L
9	DB2		H/L
10	DB3		H/L
11	DB4		H/L
12	DB5		H/L
13	DB6		H/L
14	DB7		H/L

※Pin assignment refer to drawing of dimensional outline.

※Recommended connector : Framatome Connector Japan Ltd.

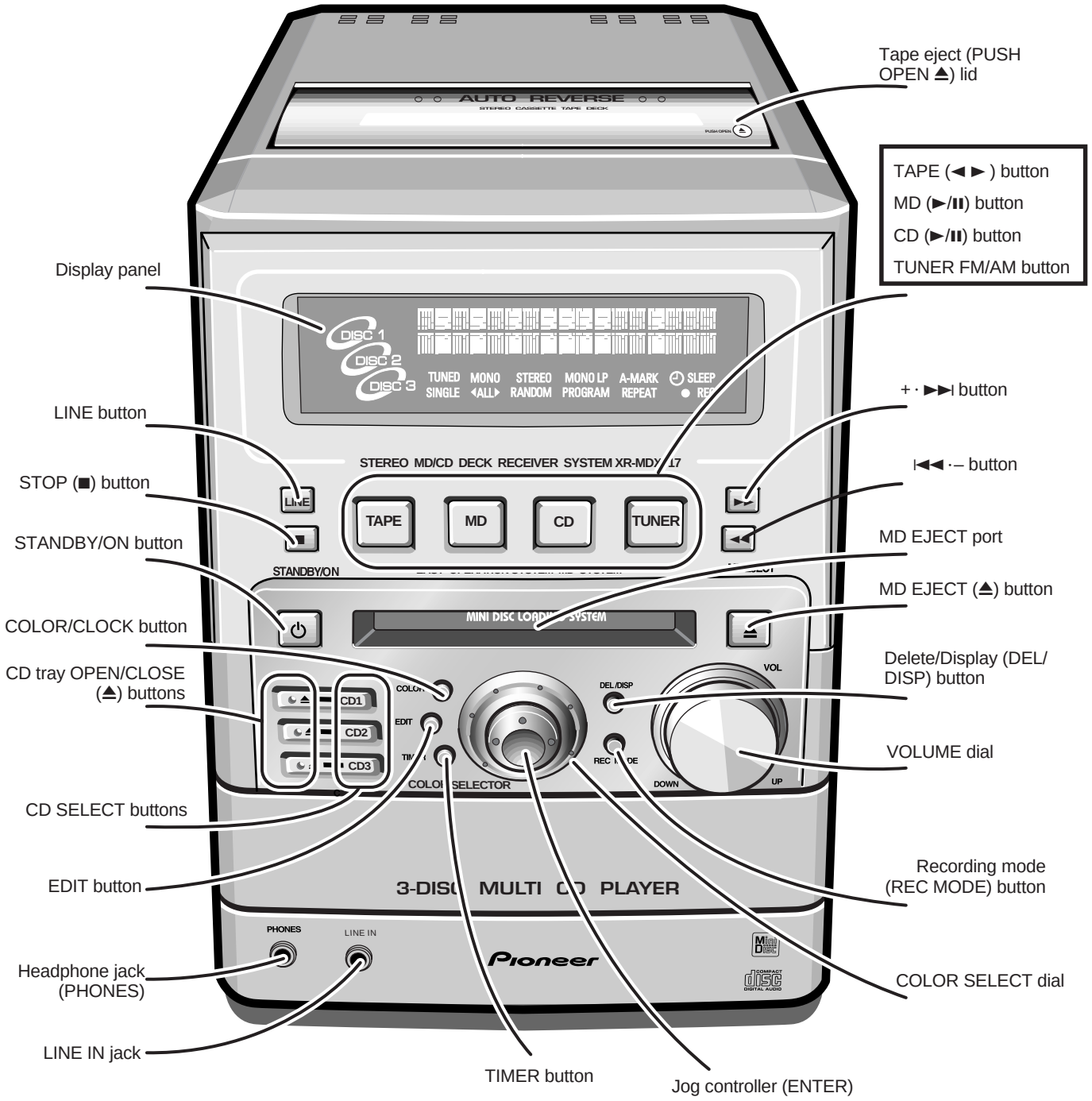
SFW14R－5STE1 (downside contact)

SFW14R－6STE1 (upside contact)

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Main Unit



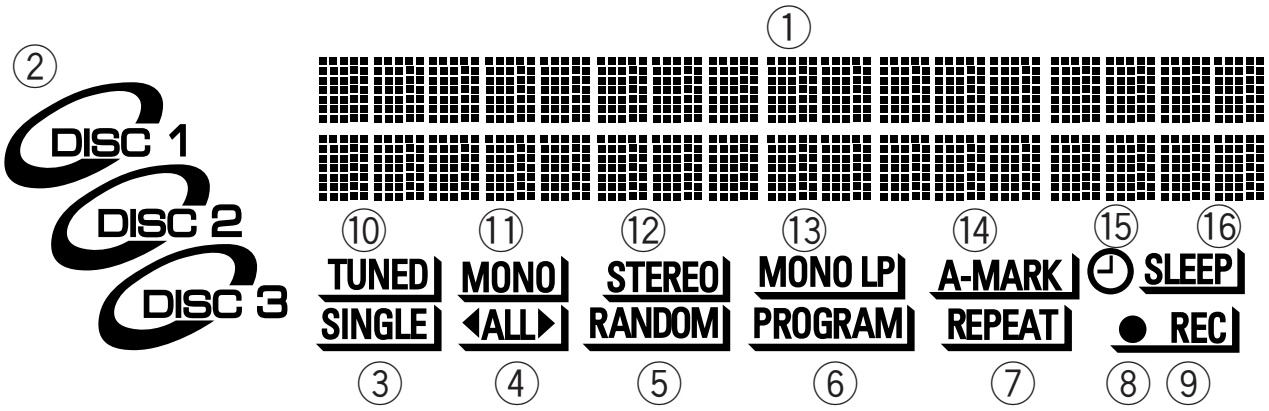
Common Operation Buttons

Function of common operation buttons (the function of each button changes in accordance with the source selected)

BUTTON \ SOURCE	MiniDisc	Tape	Tuner	CD
▶▶ / ▶▶+	Fast Forward button Track Select button	Fast Forward (Rewind) button Track Select button	Station Select button	Fast Forward button Track Select button
◀◀ / −/◀◀	Fast Reverse button Track Select button	Rewind (Fast Forward) button Track Select button	Station Select button	Fast Reverse button Track Select button
■	STOP button	STOP button	Auto-Tuning STOP button	STOP button

(▣ indicates a button on the main unit; ▯ indicates a button on the remote control unit)

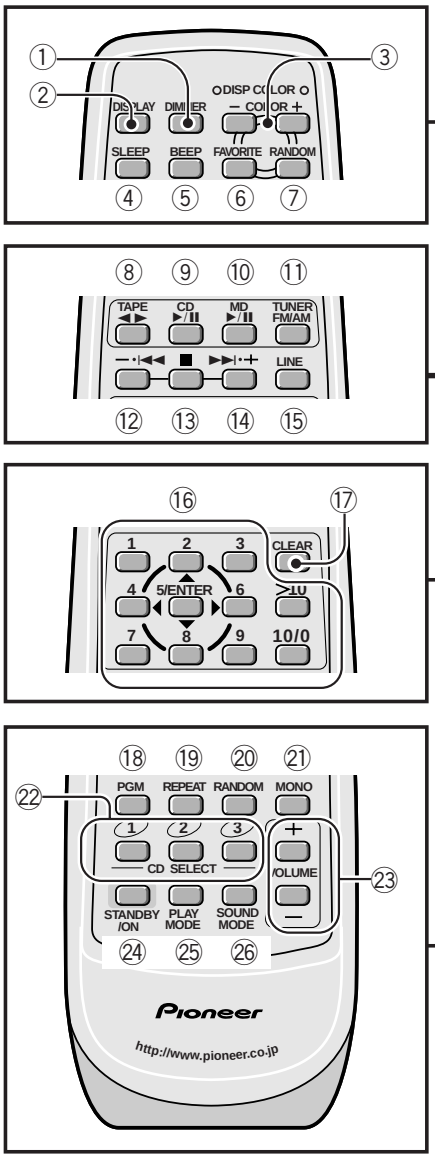
Display Panel



① Alphanumeric characters display various information.
② Indicates CD status
When a disc is loaded, the disc number lights.
During pause mode:The number of the paused CD flashes.

③ Lights during CD single disc play (SINGLE) mode.
④ Lights during CD all disc play (ALL) mode.
⑤ Lights during random play mode.
⑥ Lights when setting programmed contents, and during programmed playback.
⑦ Flashes during 1-track repeat playback, and lights during all-track repeat playback.
⑧ Lights when recording timer is set.
Flashes when recording timer operates.
⑨ Lights during recording.
⑩ Lights during AM/FM reception.
⑪ Lights when recording FM stereo broadcast in monaural mode.
⑫ Lights during reception of FM stereo broadcast.
⑬ Lights when MiniDisc monaural (long play) recording mode is selected.
⑭ Lights when MiniDisc Auto Mark is set.
⑮ Lights when sleep timer is set.
Flashes when recording timer operates.
⑯ Lights when sleep timer is set.

Remote Control Unit



Display, Timer, Effect Sound Buttons

① DIMMER button ..... Change brightness of display.
② DISPLAY button ..... Change display contents for CD and MiniDisc.
③ COLOR (–/+) button ..... Change color of display.
④ SLEEP button ..... Set/cancel sleep timer.
⑤ BEEP button ..... Set operation sound ON/OFF.
⑥ FAVORITE button ..... Press to display your favorite display color as stored in memory.
⑦ RANDOM COLOR button ..... Change color of display in random order.

Function Select Buttons

⑧ TAPE (◄ ►) button ..... Play cassette tape or change play direction.
⑨ CD (►/II) button ..... Play CD or pause playback.
⑩ MD (►/II) button ..... Play MiniDisc or pause playback.
⑪ TUNER FM/AM button ..... Play radio broadcast or change reception band.
⑫ –·I◄◄ button
⑬ Stop (■) button ..... Common operation buttons.
⑭ ►►I·+ button
⑮ LINE button ..... Select external auxiliary component.

Source Operation Buttons

⑯ Number buttons ..... Use to select tracks and input MinDisc titles.
⑰ CLEAR button ..... Use to erase program play contents and MinDisc title entries.
⑱ PGM (program) button ..... For program playback.
⑲ REPEAT button ..... For repeat playback.
⑳ RANDOM button ..... For random playback.
㉑ MONO button ..... Set FM broadcast to stereo/monaural.
㉒ CD SELECT buttons ..... Use to select one of 3 CDs for playback.
㉓ VOLUME buttons ..... Adjust volume.
㉔ STANDBY/ON button ..... Turn power STANDBY/ON.
㉕ PLAY MODE button ..... Select play mode for CD, cassette tape.
㉖ SOUND MODE button ..... Adjust tone.

8.2 SPECIFICATIONS

■ Receiver Section

Amplifier
Continuous Power Output (RMS)
1 kHz, 10%, 6 Ω ..... 15 W + 15 W
FM Tuner
Reception frequency ..... 87.5 - 108 MHz
Antenna ..... 75 Ω unbalanced type
AM Tuner
Reception frequency
.....531 kHz - 1,602 kHz (9 kHz step)
.....530 kHz - 1,700 kHz (10 kHz step)
Antenna ..... Loop antenna (furnished accessory)

■ Compact Disc Player

Type .....Compact Disc audio system
Usable discs .....Compact Discs
Channels ..... 2 (stereo)

■ Cassette Tape Deck

Track type ..... 4-track, 2-channel stereo
Recording/playback heads 1
Erase head 1

■ MiniDisc Deck

Recording method .. Magnetic-field modulation overwrite type
Playback method ..... Non-contact optical
Sampling frequency ..... 44.1 kHz
Frequency response ..... 20 Hz - 20 kHz

■ Power Section, Misc.

Power requirements
TAIWAN model ..... AC 110 V, 60 Hz
Hongkong model ..... AC 220 V, 50 Hz
Power consumption
TAIWAN model ..... 100 W
Hongkong model ..... 48 W
Standby power consumption ..... 3 W
External dimensions .... 160 (W) × 237 (H) × 355 (D) mm
Weight (main unit) ..... 6.6 kg

■ Speakers

Type ..... Bass-reflex shelf speakers
Speaker elements (2-way type)
Woofer ..... 10 cm cone type
Tweeter .....2 cm piezoelectric type
Nominal impedance ..... 6 Ω
Frequency range ..... 55 - 20,000 Hz
Maximum input ..... 20 W (EIAJ)
External dimensions .... 130 (W) × 234 (H) × 220 (D) mm
Weight .....2.0 kg

■ Accessories

Operating Instructions 1
FM T-type antenna 1
AM loop antenna 1
Remote control unit 1
AA batteries (R6P) 2

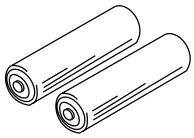
- Specifications and appearance are subject to change without notice.

■ Accessories

- Remote control unit
(R010–01)

- AM loop antenna
(illustration shows assembled unit)
(4300103510)

- AA/R6P batteries



- FM T-type antenna
(5401160021)